XR-7040/7041/7042/U110

SERVICE MANUAL

US Model
Canadian Model
XR-U110
AEP Model
XR-7040/7041
E Model
XR-7040
Germany Model
XR-7042

SONY
DIR
FM/AM
CD
DSPL
INTRO
REPEAT
SHUF
ATA
1
2
3
4
5
6
100 DISC CONTROL
XR-7042
RELEASE
SDK
SEEK TRACK
SEL
PRESET DISC
SENS LOUD
DTM M.SCAN
OFF

Photo : XR-7042

Model Name Using Similar Mechanism	XR-5350/5352
Tape Transport Mechanism Type	MG-36SZ3-32

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (XR-U110)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 9 watts per channel minimum continuous average power into 4 ohms, 4 channels driven, from 30 – 20,000 Hz with no more than 1% total hormonic distortion.

Other specifications

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	3.2 – 8 ohms
Maximum power output	XR-7040/7041/U110: 25W×4 (at 4 ohms) XR-7042: 22W×4 (at 4 ohms)

Cassette player section

Tape track	4-track 2-channel stereo
Frequency response	30 – 15,000 Hz
Signal-to-noise ratio	55 dB
Wow and flutter	0.15% (WRMS)

Tuner section

FM

Tuning range	XR-U110: 87.5–107.9MHz XR-7040/7041/7042: 87.5–108.0MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	13 dBf (75 ohms)
Selectivity	70 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz	0.9% (stereo), 0.5% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

—Continued on next page—

MICROFILM

FM/AM CASSETTE CAR STEREO

XR-7040/7042/U110

FM/MW/LW CASSETTE CAR STEREO

SONY®

AM (MW/LW)

Tuning range	XR-U110: 530–1,710kHz XR-7040/7042: 531 – 1,602 kHz XR-7041: MW: 531 – 1,602 kHz LW: 153 – 281 kHz
Antenna terminal	External antenna connector
Intermediate frequency	450 kHz
Sensitivity	XR-7040/7042/U110: 35 µV XR-7041: MW: 35 µV LW: 70 µV

General

Tone controls	Bass ±10 dB at 100 Hz Treble ±10 dB at 10 kHz
Loudness	+10 dB at 100 Hz +6 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 186 × 57 × 174 mm ($7^3/_8$ × $2^1/_4$ × $6^7/_8$ in.) (w/h/d), not incl. projecting parts and controls
Mounting dimensions	Approx. 182 × 53 × 154 mm ($7^1/_4$ × $2^1/_8$ × $6^1/_8$ in.) (w/h/d), not incl. projecting parts and controls
Mass	Approx. 1.3 kg (2 lb. 14 oz.)
Supplied accessories	Mounting hardware (1 set) Power connecting cord (1) Front panel case (1)

Design and specifications subject to change without notice.

NOTES ON CHIP COMPONENT REPLACEMENT

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Features

General

- **Detachable-front panel** enables you to take the front panel away with you when you leave your car.
- **Built-in power amplifier (max. output: 25 W x 4)** enables you to enjoy a 4-speaker system (XR-7040/7041/U110).
- **Built-in power amplifier (max. output:** 22 W x 4) enables you to enjoy a 4-speaker system (XR-7042).
- **Caution alarm** will be activated if you turn off the ignition key without removing the front panel from the unit (XR-7040/7041/7042).
- Provided with a **digital 12-hour clock.**

Cassette player section

ATA (Automatic Tuner Activation) for automatically turning on the tuner during the fast-forwarding or rewinding of a tape.

Tuner section

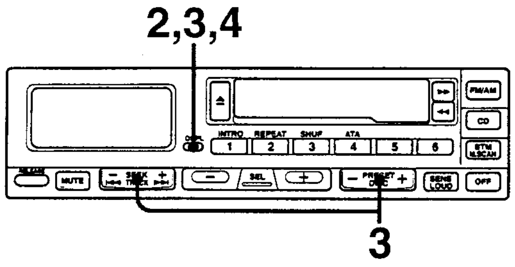
- **SSIR (Sony Super Interference Rejection) PLL synthesizer tuner.**
- Up to 24 stations can be preset: 18 stations on FM and 6 stations on AM (XR-7040/7042/U110).
- Up to 30 stations can be preset: 18 stations on FM and 6 stations each on MW and LW (XR-7041).
- **BTM (Best Tuning Memory) function** automatically selects and stores the stations with the strongest signals on the preset number buttons in order of frequency.
- **Traffic information stand-by function (SDK)** for automatically starting the traffic information broadcasts whenever the unit receives them even while listening to a radio program, tape playback or CD play. (XR-7042)

CD changer control section

(when the optional Sony CD changers are connected)

- **Several CD changers can be connected and controlled** by the use of the Sony source selector (not supplied) with the unit.
- **Intro scan function** for playing the first 10 seconds of each track of every disc.
- **Repeat play function** for playing a track, a disc or a changer repeatedly.
- **Shuffle play function** for playing tracks in random order.

Setting the Clock



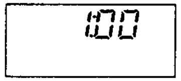
The clock has a 12-hour digital indication.

For example, set it to 10:08.

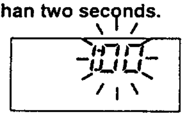
1 Turn the ignition key to the ON position.

2 Press the DSPL button if the clock indication does not come on.

DSPL ⬭



3 Press the DSPL button for more than two seconds.

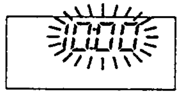


DSPL ⬭

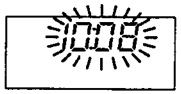
↓

While holding down the DSPL button

Press [− SEEK/TRACK +] **to set the hour digits.**
(to go back) (to go forward)



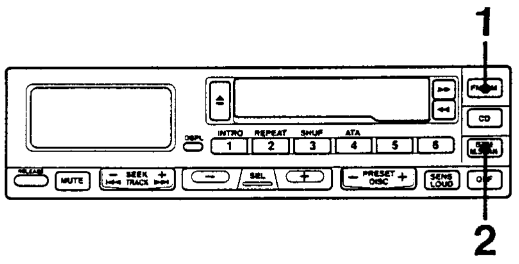
Press [− PRESET/DISC +] **to set the minute digits.**
(to go back) (to go forward)



4 The clock starts activating when you take your finger off the DSPL button.

Note
If the POWER SELECT switch of the unit is set to the OFF position, the clock cannot be set unless the power is turned on. Set the clock after you turn on the radio, start CD play, or play back a tape.

Using the Memory Preset Function



The clearest receiving stations are automatically searched and memorized on each band (FMI, FMII, FMIII and AM(MW, LW)). Up to 6 stations on each band can be stored on the preset number buttons 1 to 6 in order of frequency.

Memorizing the Stations Automatically

— BTM (Best Tuning Memory) Function

1 Select the desired band.

[FM/AM] XR-7040/7042/U110

[FM MW/LW] XR-7041

2 Keep the BTM button pressed for more than two seconds.

[BTM M.SCAN]

Note
The receivable frequencies of FMI, FMII and FMIII are the same.

Checking in order, all the stations stored in the memory (Memory scan function)
Press the M.SCAN button lightly. The tuner will receive in order, all the stations in the memory for five seconds each. To cancel, press it lightly once more.

The BTM function

The BTM function searches all the receivable stations within the currently selected band and memorizes the ones in good receiving conditions in sequence from the lowest frequency.

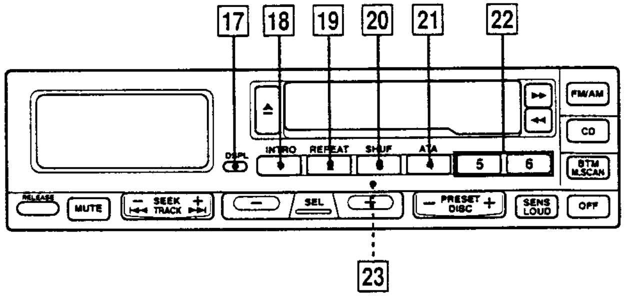
How to memorize the stations on the preset number buttons

— When there is no preset number indicated on the display window: all the preset number buttons set in the currently selected band will be filled with the memories.

— When there is a preset number indicated on the display window: the unit will memorize the stations on the preset number buttons from the one currently being displayed. For example, when you choose FMII and preset number 3 is being displayed, the operation will start from preset number 3 on FMII, and stops at preset number 6 on FMIII.

Note
There may be cases where there are not enough receivable stations due to the lack of stations in the vicinity or weak broadcasting signals. In such cases, the BTM operation may stop without all the buttons being occupied with memories.

Location and Function of Controls



17 **DSPL (display change/time setting) button**
At each pressing, the button changes the display mode as follows:

During tape playback	"TAPE" indication → Clock → Frequency*
During CD play	Elapsed playing time → Disc number and track number → Clock
During radio reception	Frequency ↔ Clock

*only when the ATA is operating

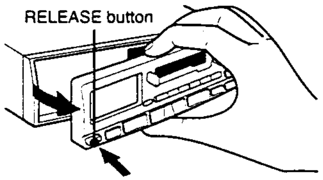
	During tape playback	During CD play	During radio reception
18 **INTRO button** INTRO 1	–	**Intro scan ⓳**	**Preset number buttons ⓮⓯**
19 **REPEAT button** REPEAT 2	–	**Repeat play ⓲**	
20 **SHUF button** SHUF 3	–	**Shuffle play ⓱**	
21 **ATA button** ATA 4	**Automatic Tuner Activation** Press to make the tuner to turn on automatically every time you press the ◀◀ or ▶▶ button. To cancel, press it again.	–	
22 5 6	–	–	

23 **Reset button (located on the front side of the unit hidden by the front panel)**
Press this button when you use this unit for the first time, when you have changed the car battery or when the buttons of this unit do not function properly.

Detaching and Attaching the Front Panel

Detaching the Front Panel

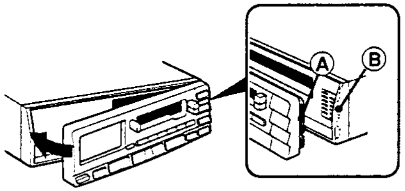
Before detaching the front panel, be sure to press the OFF button first. Then press the RELEASE button to open up the front panel and detach the panel by pulling it towards you as illustrated.



Be sure not to drop the panel when detaching it from the unit.

Attaching the Front Panel

Apply the right hand side of the front panel to the unit by attaching the part Ⓐ of the front panel to the part Ⓑ of the unit as illustrated and push until it clicks.



Do not press hard or give excessive pressure to the display window of the front panel.

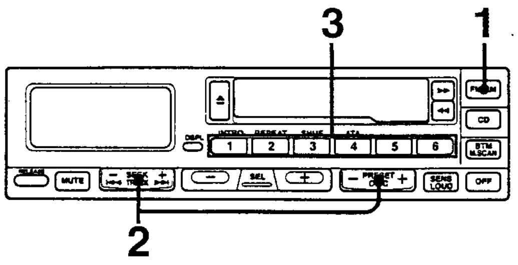
Caution alarm (XR-7040/7041/7042)
If you turn the ignition key to the OFF position without removing the front panel, the caution alarm will be activated and a beep tone will be heard for a few seconds (only when the POWER SELECT switch is set to the ON position).

Notes
- Make sure that the front panel is the right way up when attaching it to the unit as it cannot be attached upside down.
- Do not press the front panel hard against the unit when attaching it to the unit. It can be easily attached by pressing it lightly against the unit.
- Never leave the detached front panel in your car if it is parked in direct sunlight as there could be a considerable rise in temperature inside the car.
- When you carry the front panel with you, put it in the supplied front panel case.
- The display window may become warm while the unit is being operated, however, this is not a sign of a malfunction.

Error displays (when the optional Sony CD changers are connected)

The following indication will flash for about five seconds.

Display	Cause	Solution
E-01	The disc magazine is not inserted in the CD changer.	Insert the disc magazine with discs into the CD changer.
E-02	No disc is inserted in the disc magazine.	Take out the disc magazine and insert the discs.
E-04	The disc is dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc correctly.
E-99	The CD changer cannot be operated because of some trouble.	Press the reset button of the unit.



Up to 6 stations on each band (FMI, FMII, FMIII and AM (MW/LW)) can be stored in the memory in order of your choice.

Memorizing Only the Desired Stations

For example, to store a station on the preset number button 1.

1 **Select the desired band.**

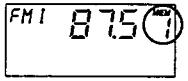
FM/AM	FM MW/LW
XR-7040/ 7042/U110	XR-7041

2 **Tune in the station which you wish to store on the preset number button.**

– SEEK TRACK + or – PRESET DISC +

3 **Keep the preset number button pressed for more than two seconds.**

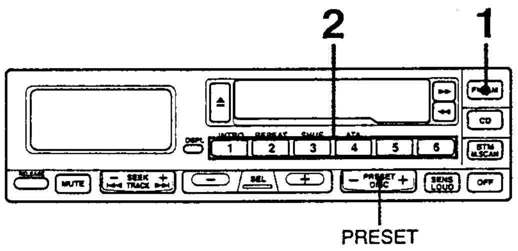
INTRO 1



Repeat the same procedure to store other stations.

Each preset number button has only one memory for a band
The previously memorized station will be erased when you enter a new station of the same band on the same preset number button.

The number of the preset number button which you are pressing now comes on the display window. When the "MEM" indication comes on, the station will be stored in the memory and the operation is now completed. The "MEM" indication will turn off after a while.



Receiving Stations Stored in the Memory

1 **Select the desired band.**

FM/AM	FM MW/LW
XR-7040/ 7042/U110	XR-7041

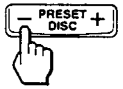
2 **Press the preset number button lightly on which the desired station is to be stored.**

INTRO 1 — 6

Notes

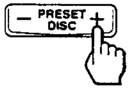
- There may be cases in which even the stations stored in the memory cannot be received due to weak signals in the vicinity of your car.
- If you keep pressing the preset number button for more than two seconds, the currently received station will be memorized. To receive the previously memorized station, make sure that the preset number button is pressed only lightly.

Receiving in Order the Stations Stored in the Memory — Preset Search Function



(Press lightly.)

The number will reverse in the following order:
6 ➡ 5 ➡ ... ➡ 2 ➡ 1 ➡ 6 ➡ 5 ➡ ...
(number of the preset number buttons)



(Press lightly.)

The number will advance in the following order:
1 ➡ 2 ➡ ... ➡ 5 ➡ 6 ➡ 1 ➡ 2 ➡ ...
(number of the preset number buttons)

Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal which is energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Connexions

Précautions

- Cet appareil est conçu pour fonctionner sur courant continu de 12 V avec masse négative.
- Avant d'effectuer les connexions, débrancher la borne de terre de la batterie du véhicule pour éviter tout court-circuit.
- Brancher le fil d'entrée d'alimentation **rouge** en dernier. En outre, veiller à le raccorder à la borne d'alimentation de 12 V positive qui est énergétisée quand la clé de contact est sur la position accessoire.
- **Raccorder tous les fils de terre à un point de masse commun.**

except E model

When the Unit is Used in a Car with No Accessory Position on the Ignition Key

— POWER SELECT Switch

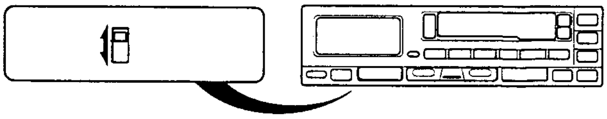
The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear **if the unit is used in a car with no accessory position on the ignition key.**

To avoid this battery wear when using the unit in such a car, **set the POWER SELECT switch located on the bottom of the unit to the OFF position, then press the reset button.** The illumination is reset to stay off while the unit is not being played.

Si l'appareil est utilisé dans une voiture dont la clé de contact n'a pas de position accessoire

— Interrupteur POWER SELECT

L'éclairage du panneau avant est réglé en usine de manière à s'allumer même quand l'appareil ne fonctionne pas. Cependant, ce réglage risque d'épuiser la batterie **si l'appareil est utilisé dans une voiture dont la clé de contact ne possède pas de position accessoire.** Pour éviter d'épuiser la batterie, **régler l'interrupteur POWER SELECT sur le fond de l'appareil sur OFF, puis appuyer sur la touche de réinitialisation sur le panneau avant.** L'éclairage est réinitialisé pour rester éteint quand l'appareil n'est pas utilisé.

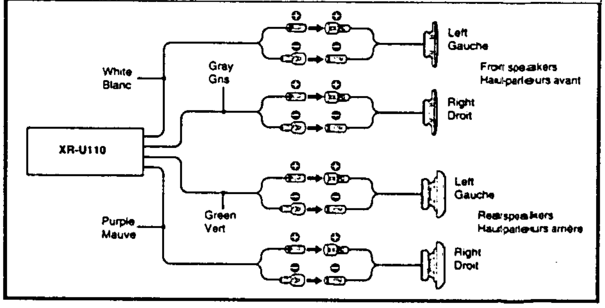


Change the position with a jeweler's screwdriver, etc.

Changer la position avec un tournevis de joallier ou autre objet similaire.

Speaker Connection

Connexion des haut-parleurs



Notes on speaker connection

- Use speakers with an impedance of 3.2 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers. Therefore, be sure to connect passive speakers to these terminals.

Remarques sur la connexion des haut-parleurs

- Utiliser des haut-parleurs ayant une impédance de 3,2 à 8 ohms et une capacité adéquate sous peine de les endommager
- Ne pas raccorder les bornes du système de haut-parleurs au châssis de la voiture et ne pas connecter les bornes du haut-parleur droit à celles du haut-parleur gauche.
- Ne pas tenter de raccorder les haut-parleurs en parallèle.
- Ne pas raccorder des haut-parleurs actifs (avec amplificateurs intégrés) aux bornes de haut-parleur de l'appareil sous peine de les endommager. Veiller à raccorder des haut-parleurs passifs à ces bornes.

Installation

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.
- Be sure to detach the front panel before you start installing the unit.
- **Press the reset button after completing the connections.**

Mounting angle adjustment
Adjust the mounting angle to less than 20°.

Installation

Précautions

- Choisir l'emplacement de montage avec soin de manière que l'appareil ne gêne pas les mouvements du conducteur.
- Eviter d'installer l'appareil en plein soleil, près d'une source de chaleur comme un chauffage ou dans un endroit exposé à la poussière, la saleté ou des vibrations excessives.
- Afin de garantir un montage sûr, utiliser uniquement le matériel de montage fourni.
- Veiller à détacher le panneau avant d'installer l'appareil.
- **Les connexions achevées, appuyer sur la touche de réinitialisation.**

Réglage de l'angle de montage
Ajuster l'inclinaison à un angle inférieur à 20°.

How to Detach and Attach the Front Panel

To detach
Press the RELEASE button to open up the front panel, then pull it out.

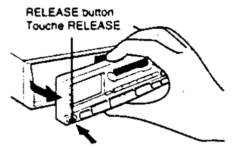
To attach
Align the parts Ⓐ and Ⓑ, and push the front panel until it clicks.

Retrait et pose du panneau avant

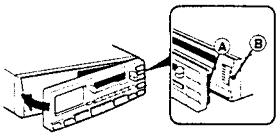
Retrait
Appuyer sur la touche RELEASE pour ouvrir le panneau avant, puis l'enlever.

Pose
Aligner les points Ⓐ et Ⓑ, puis pousser l'appareil jusqu'au déclic.

To detach
Retrait


RELEASE button
Touche RELEASE

To attach
Pose

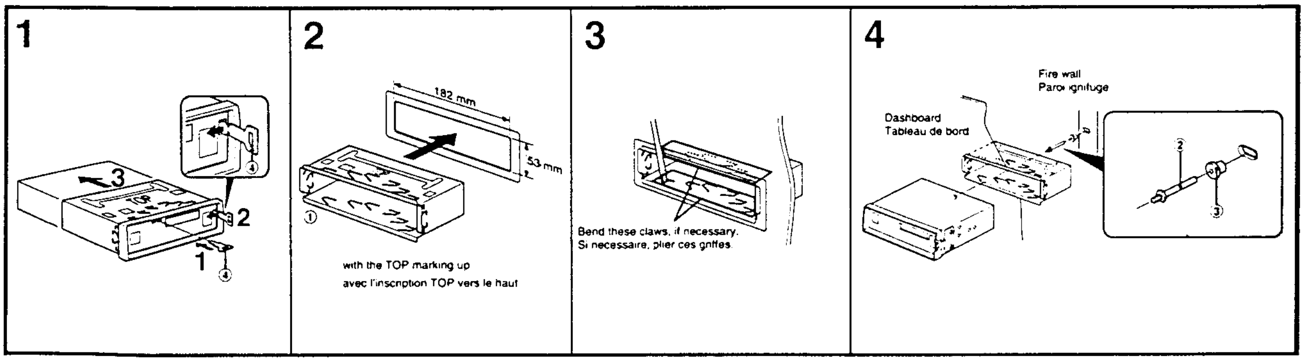


Mounting Example

Installation in the dashboard

Exemple de montage

Installation dans le tableau de bord


1
3
2
1
④
④
2
182 mm
53 mm
①
with the TOP marking up
avec l'inscription TOP vers le haut
3
Bend these claws, if necessary.
Si necessaire, plier ces griffes.
4
Fire wall
Paroi ignifuge
Dashboard
Tableau de bord
②
③

Mounting the Unit in a Japanese Car

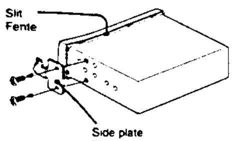
You may not be able to install this unit in some makes of Japanese cars. In such a case, consult your nearest Sony dealer.

Installation de l'appareil dans une voiture japonaise

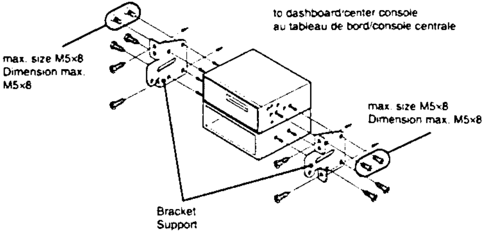
Si l'appareil ne peut pas être installé dans une voiture japonaise, consulter le revendeur Sony le plus proche.

1 **Run a blade along the slits on the back of the front trim and cut it off the unit. At the same time, remove the side plate as well.**

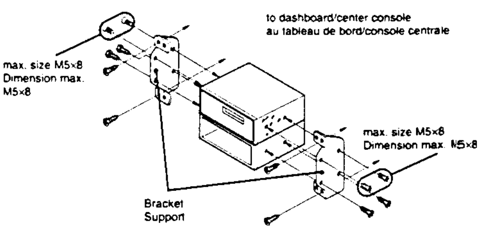
Passer une lame le long des fentes à l'arrière de la bordure et la couper. Au même moment, enlever également la plaque latérale.


Slit
Fente
Side plate
Plaque latérale

2 TOYOTA


to dashboard/center console
au tableau de bord/console centrale
max. size M5×8
Dimension max. M5×8
max. size M5×8
Dimension max. M5×8
Bracket
Support

NISSAN


to dashboard/center console
au tableau de bord/console centrale
max. size M5×8
Dimension max. M5×8
max. size M5×8
Dimension max. M5×8
Bracket
Support

Note
Use the existing parts supplied to your car.

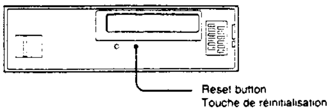
Remarque
Utiliser les pièces fournies avec la voiture.

Reset Button

When the installation and connections are over, be sure to press the reset button with a ball-point pen etc. The reset button is located under the cassette insertion door when the front panel is detached.

Touche de réinitialisation

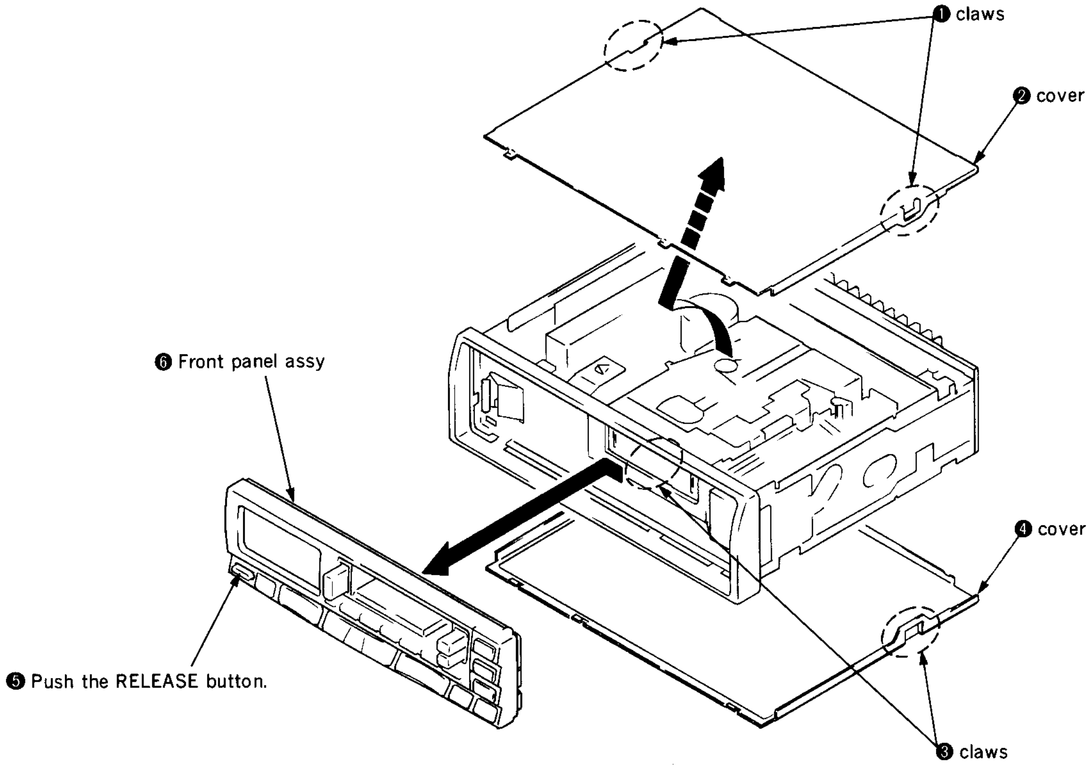
Quand l'installation et les connexions sont terminées, appuyer sur la touche de réinitialisation avec un stylo bille ou autre objet pointu. La touche de réinitialisation est située sous le volet d'insertion de cassette quand le panneau avant est enlevé.


Reset button
Touche de réinitialisation

SECTION 2
DISASSEMBLY

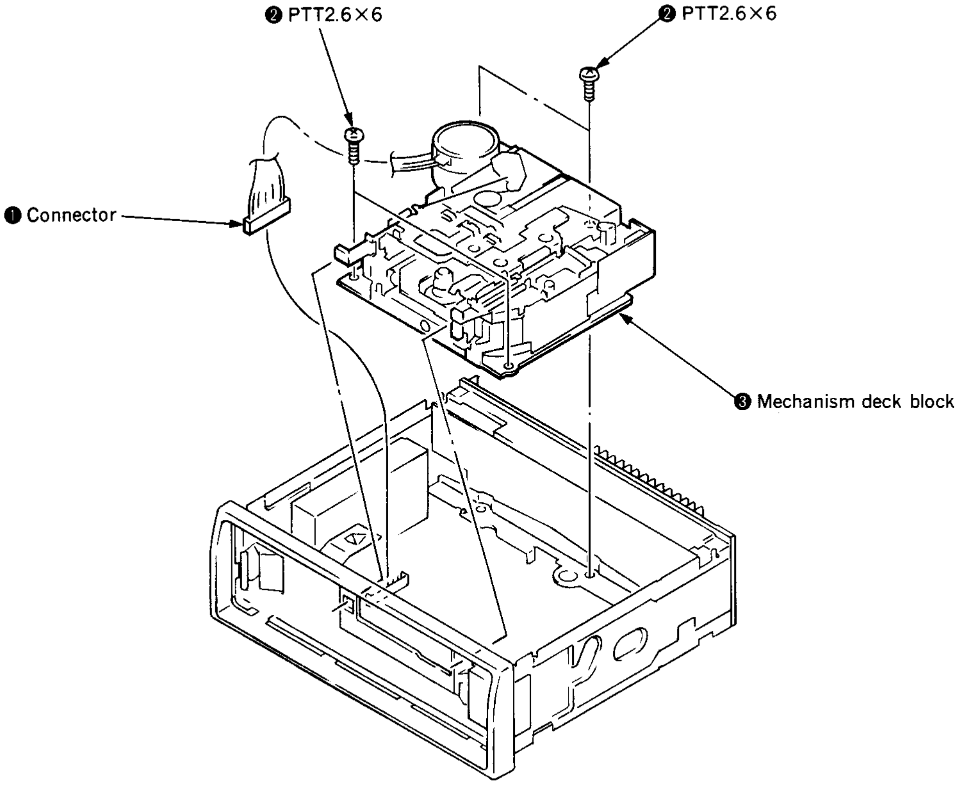
Note : Follow the disassembly procedure in the numerical order given.

2-1. COVER, FRONT PANEL ASSEMBLY



❶ claws
❷ cover
❻ Front panel assy
❹ cover
❺ Push the RELEASE button.
❸ claws

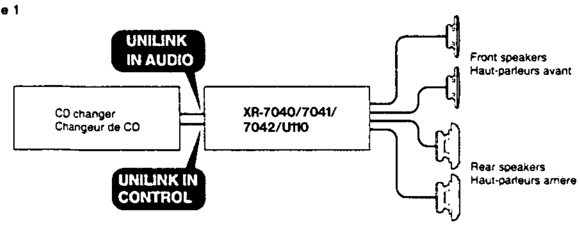
2-2. MECHANISM DECK BLOCK



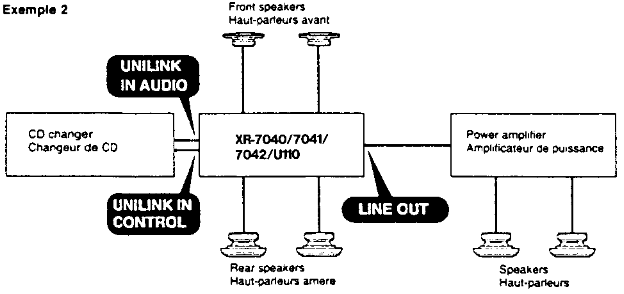
❷ PTT2.6×6
❷ PTT2.6×6
❶ Connector
❸ Mechanism deck block

Connection Diagram / Schéma de connexion

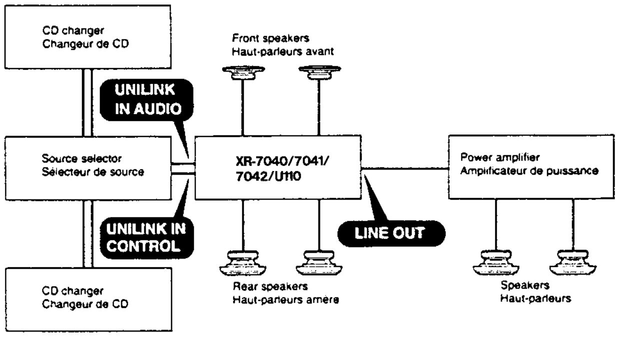
Example 1
Exemple 1


UNILINK IN AUDIO
CD changer
Changeur de CD
XR-7040/7041/ 7042/U110
UNILINK IN CONTROL
Front speakers
Haut-parleurs avant
Rear speakers
Haut-parleurs arrière

Example 2
Exemple 2


Front speakers
Haut-parleurs avant
UNILINK IN AUDIO
CD changer
Changeur de CD
XR-7040/7041/ 7042/U110
Power amplifier
Amplificateur de puissance
UNILINK IN CONTROL
LINE OUT
Rear speakers
Haut-parleurs arrière
Speakers
Haut-parleurs

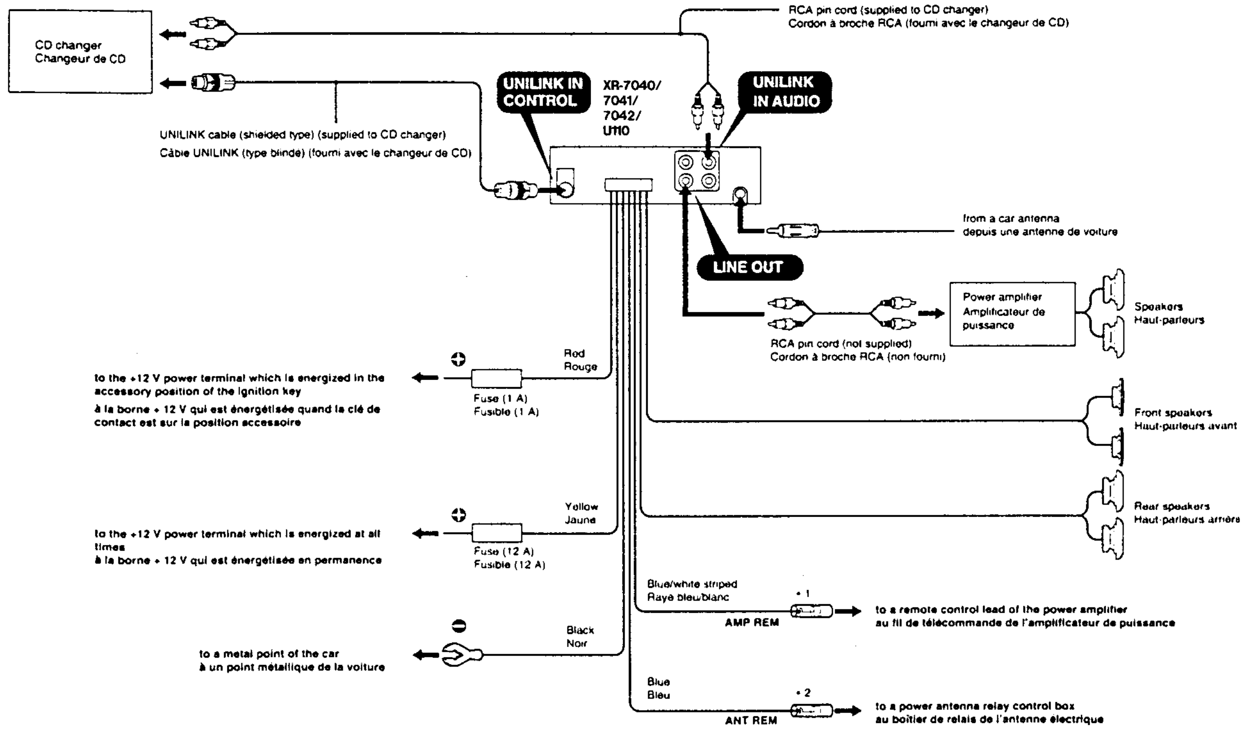
Example 3
Exemple 3


CD changer
Changeur de CD
Front speakers
Haut-parleurs avant
UNILINK IN AUDIO
Source selector
Sélecteur de source
XR-7040/7041/ 7042/U110
Power amplifier
Amplificateur de puissance
UNILINK IN CONTROL
LINE OUT
CD changer
Changeur de CD
Rear speakers
Haut-parleurs arrière
Speakers
Haut-parleurs

If you connect two or more CD changers, the source selector XA-U20 or XA-U40 (not supplied) is required.

Si plusieurs changeurs de CD sont utilisés, le sélecteur de source XA-U20 ou XA-U40 (non fourni) est nécessaire.

Connections of Example 2 / Connexions de l'exemple 2


CD changer
Changeur de CD
RCA pin cord (supplied to CD changer)
Cordon à broche RCA (fourni avec le changeur de CD)
UNILINK cable (shielded type) (supplied to CD changer)
Câble UNILINK (type blindé) (fourni avec le changeur de CD)
UNILINK IN CONTROL
XR-7040/ 7041/ 7042/ U110
UNILINK IN AUDIO
from a car antenna
depuis une antenne de voiture
LINE OUT
RCA pin cord (not supplied)
Cordon à broche RCA (non fourni)
Power amplifier
Amplificateur de puissance
Speakers
Haut-parleurs
Front speakers
Haut-parleurs avant
Rear speakers
Haut-parleurs arrière
Red
Rouge
Fuse (1 A)
Fusible (1 A)
to the +12 V power terminal which is energized in the accessory position of the ignition key
à la borne + 12 V qui est énergétisée quand la clé de contact est sur la position accessoire
Yellow
Jaune
Fuse (12 A)
Fusible (12 A)
to the +12 V power terminal which is energized at all times
à la borne + 12 V qui est énergétisée en permanence
Black
Noir
to a metal point of the car
à un point métallique de la voiture
Blue/white striped
Rayé bleu/blanc
* 1
AMP REM
to a remote control lead of the power amplifier
au fil de télécommande de l'amplificateur de puissance
Blue
Bleu
* 2
ANT REM
to a power antenna relay control box
au boîtier de relais de l'antenne électrique

Notes on the control leads
- The power antenna control lead (blue) supplies +12 V DC when you turn on the unit.
- A power antenna without relay control box cannot be used with this unit.

Remarques sur les fils de contrôle
- Le fil de contrôle de l'antenne électrique (bleu) fournit un courant continu de 12 V quand le tuner est allumé.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil.

* 1 Max. supply current 0.3 A
Courant max. fourni 0,3 A

* 2 Max. supply current 0.1 A
Courant max. fourni 0,1 A

SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before aejustment :
   PB head   Pinch roller
   Idler   Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After the adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4V).

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	40—75g•cm (0.56—1.04oz•inch)
FWD Back Tension		1—5g•cm (0.01—0.06oz•inch)
REV	CQ-102RC	40—75g•cm (0.56—1.04oz•inch)
REV Back Tension		1—5g•cm (0.01—0.06oz•inch)
FF, REW	CQ-201B	45—150g•cm (0.63—2.08oz•inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

DECK SECTION

1. The adjustments should be performed in the order given in this service manual.
2. The adjustments should be performed for both L-CH and R-CH.

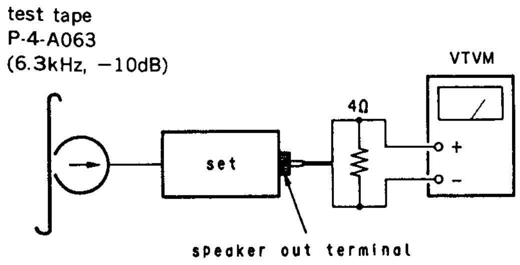
Test Tape

Type	Signal	Used for
P-4-A063	6.3kHz, −10dB	head azimuth adjustment
WS-48A	3kHz, 0dB	tape speed adjustment

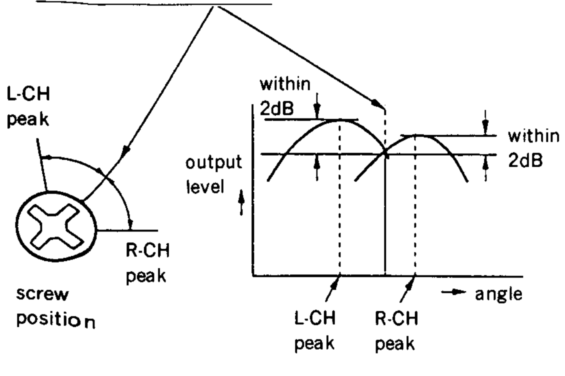
PB Head Azimuth Adjustment

Procedure :

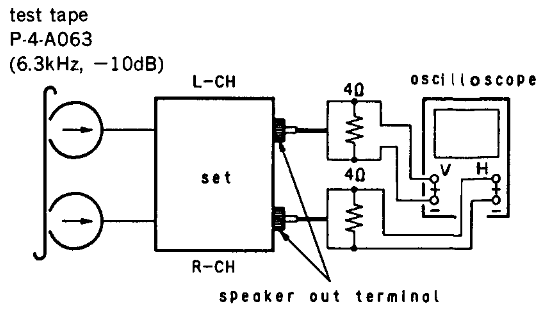
1. Mode : playback

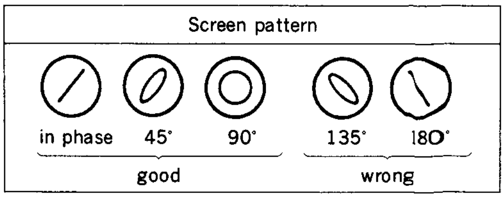

test tape
P-4-A063
(6.3kHz, −10dB)
VTVM
4Ω
set
+
−
speaker out terminal

2. Turn the screw and check the output peak value. Adjust the screw so that the peak value in channels L and R coincides within 2dB.


L-CH
peak
R-CH
peak
screw
position
within
2dB
within
2dB
output
level
angle
L-CH
peak
R-CH
peak

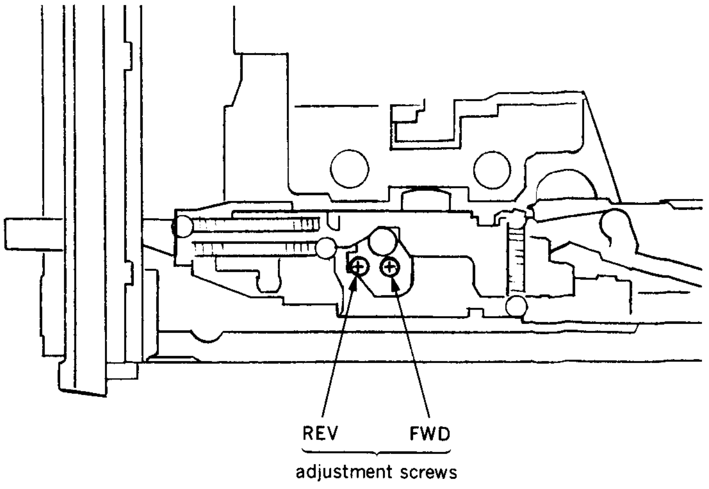
3. Check the phase in the PB mode.


test tape
P-4-A063
(6.3kHz, −10dB)
L-CH
4Ω
oscilloscope
set
4Ω
V
H
R-CH
speaker out terminal

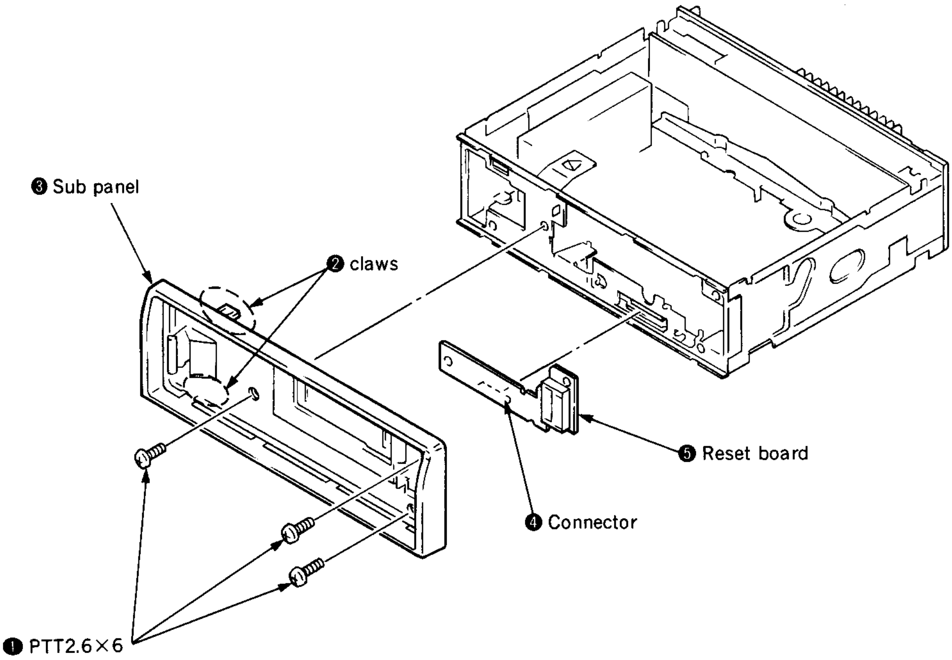

Screen pattern
in phase
45°
90°
135°
180°
good
wrong

4. Repeat the above adjustment for the PB REV mode.

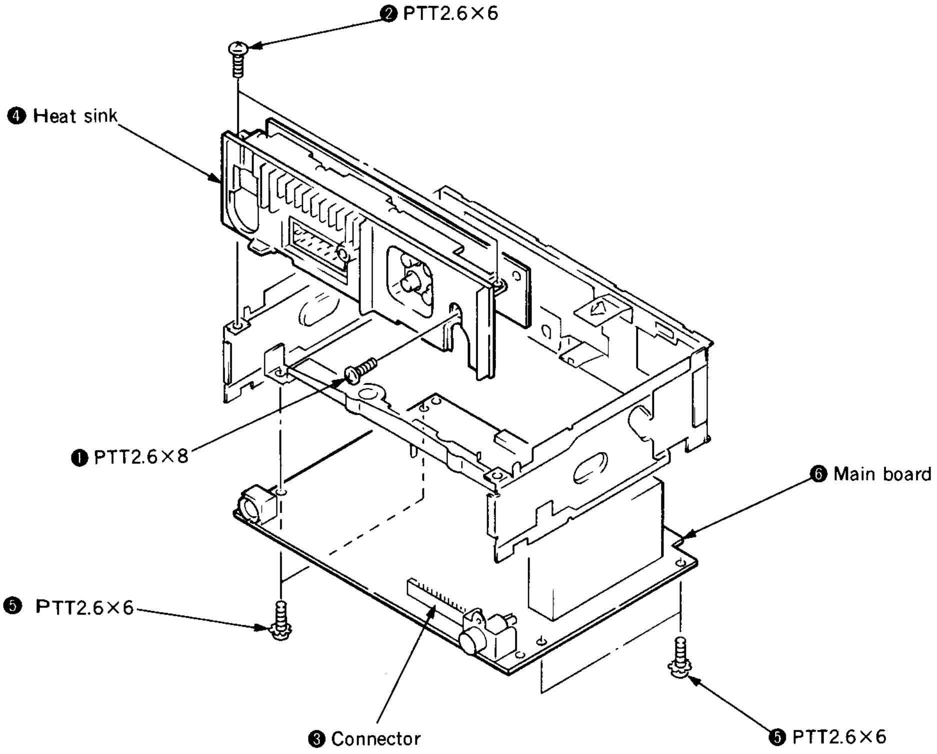
Adjustment Location :


REV
FWD
adjustment screws

2-3. RESET BOARD

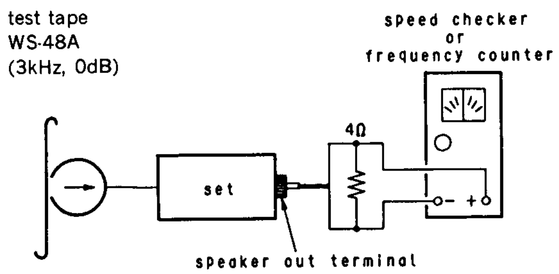

❸ Sub panel
❷ claws
❺ Reset board
❹ Connector
❶ PTT2.6×6

2-4. MAIN BOARD


❷ PTT2.6×6
❹ Heat sink
❶ PTT2.6×8
❻ Main board
❺ PTT2.6×6
❸ Connector
❺ PTT2.6×6

Tape Speed Adjustment

Setting :


test tape
WS-48A
(3kHz, 0dB)
speed checker
or
frequency counter
4Ω
set
- +
speaker out terminal

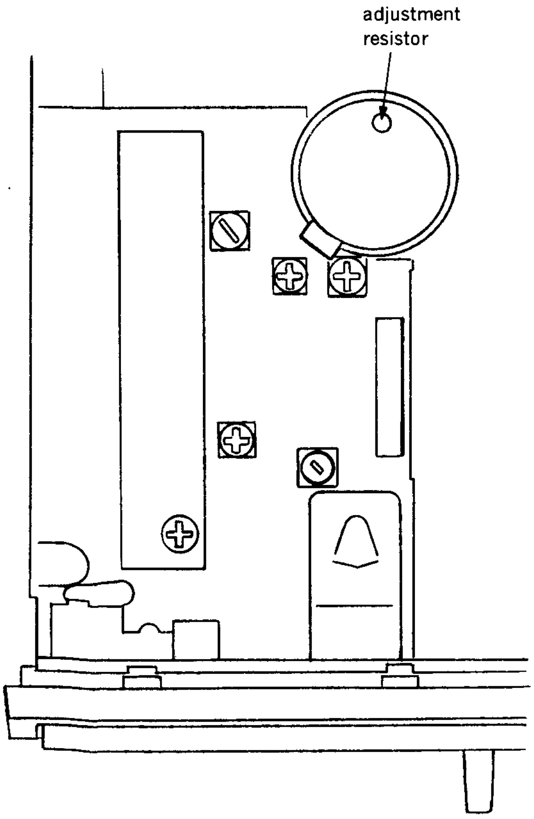
Procedure :

1. Put the set into the FWD PB mode.
2. Adjust adjustment resistor for inside capstan motor so that the reading on the speed checker or frequency counter becomes in specification.

Specification : Constant speed

Speed checker	Frequency counter
−1.5 to +2.5%	2,955 to 3,075Hz

Adjustment Location :


adjustment
resistor

TUNER SECTION

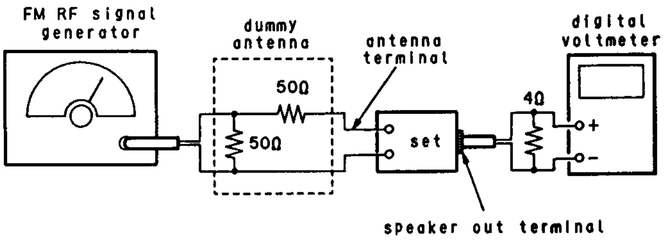
Cautions during repair

When the front end is defective, replace it by a new one because its internal block is difficult to repair.

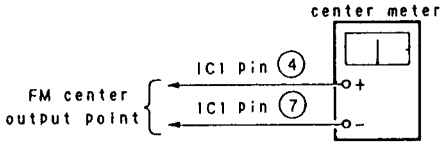
FM Center Adjustment

Setting :

Band : FM

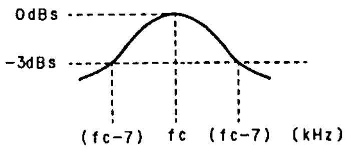

FM RF signal
generator
dummy
antenna
50Ω
50Ω
antenna
terminal
set
speaker out terminal
digital
voltmeter
4Ω
+
-

Carrier frequency : 98MHz (7040, 7041, 7042)
97.9MHz (U110)
Output level : 60dB (1mV)
Mode : mono
Modulation : 1kHz, 75kHz deviation (100%)


center meter
FM center
output point
IC1 pin ④
IC1 pin ⑦
+
-

Procedure :

1. Adjust T1 so that the reading on the center meter becomes in 0±30mV.
2. Output an Fcenter 60dB signal output from FM rf signal generator so that the speaker output terminal is 0dBs.
3. Change the FM rf signal generator frequency and check the deviation of the frequency on + side and − side when the speaker output terminal drops 3dB.
4. Re-adjust T1 when the difference deviation of the frequency does more than 7kHz.

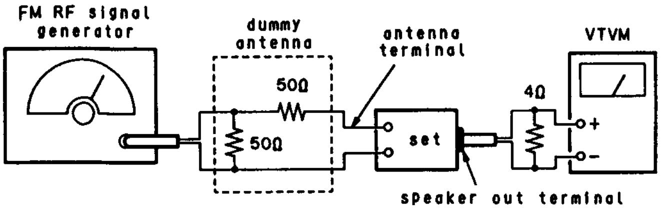


Adjustment Location : main board

FM Stereo Separation Adjustment

Setting :

Band : FM


FM RF signal generator
dummy antenna
50Ω
50Ω
antenna terminal
set
4Ω
VTVM
+
-
speaker out terminal

Carrier frequency : 98MHz (7040, 7041, 7042)
97.9MHz (U110)
Output level : 70dB (3.2mV)
Mode : stereo
Modulation : main channel 1kHz, 33.75kHz deviation (45%)
: sub channel 1kHz, 33.75kHz deviation (45%)
: pilot signal 19kHz, 7.5kHz deviation (10%)

Procedure :

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV2 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV2 for minimum reading.

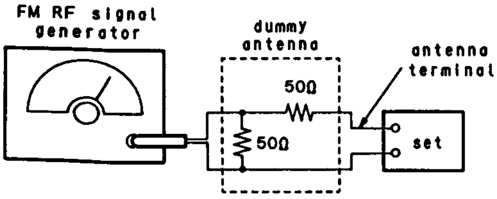
L-CH stereo separation : Ⓐ−Ⓑ
R-CH stereo separation : Ⓒ−Ⓓ
The separations of both channels should be equal.
Adjust so that separation is maximized.
(separation>26dB)

Adjustment Location : main board

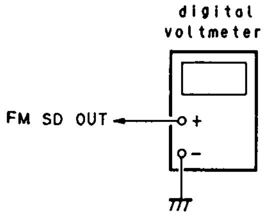
FM Auto Scan/Stop Level Adjustment

Setting :

Band : FM


FM RF signal generator
dummy antenna
50Ω
50Ω
antenna terminal
set

Carrier frequency : 98MHz (7040, 7041, 7042)
97.9MHz (U110)
Output level : 25dB (17.8μV)
Mode : mono
Modulation : no modulation


digital voltmeter
FM SD OUT
+
-

Procedure :

1. Adjust RV1 so that the reading on the digital voltmeter changes point from minimum to maximum.
(approx. 0.6V)
2. Confirm that the set stops auto-scanning with FM rf signal generator output level set at 25±2dB.

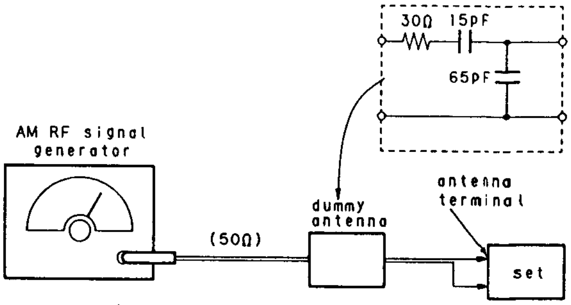
Adjustment Location : main board

AM Auto Scan/Stop Level Adjustment

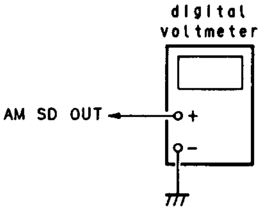
Note) Be sure to perform this adjustment after "FM Auto Scan/Stop Level Adjustment".

Setting :

Band : AM


30Ω
15pF
65pF
AM RF signal generator
dummy antenna
antenna terminal
(50Ω)
set

Carrier frequency : 999kHz (7040, 7041, 7042)
1,000kHz (U110)
Output level : 30dB (31.6μV)
Modulation : no modulation


digital voltmeter
AM SD OUT
+
-

Procedure :

Note) AM mute signal OFF. (Add +5V through 47kΩ between pins ⑮ and ⑲ of TU1.)

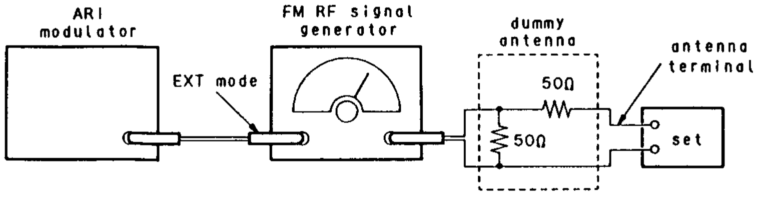
1. Adjust adjustment resistor for inside TU1 (AM tuner unit) so that the reading on the digital voltmeter changes point from minimum to maximum. (approx. 0.6V)
2. Confirm that the set stops auto-scanning with AM rf signal generator output level set at 30±2dB.

Adjustment Location : main board

SDK Adjustment (XR-7042 only)

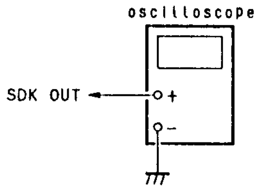
Setting :

Band : SDK (Traffic Announcement)


ARI modulator
FM RF signal generator
EXT mode
dummy antenna
50Ω
50Ω
antenna terminal
set

ARI modulation
SK : 1.3%
DK : 30%
BK : 60%

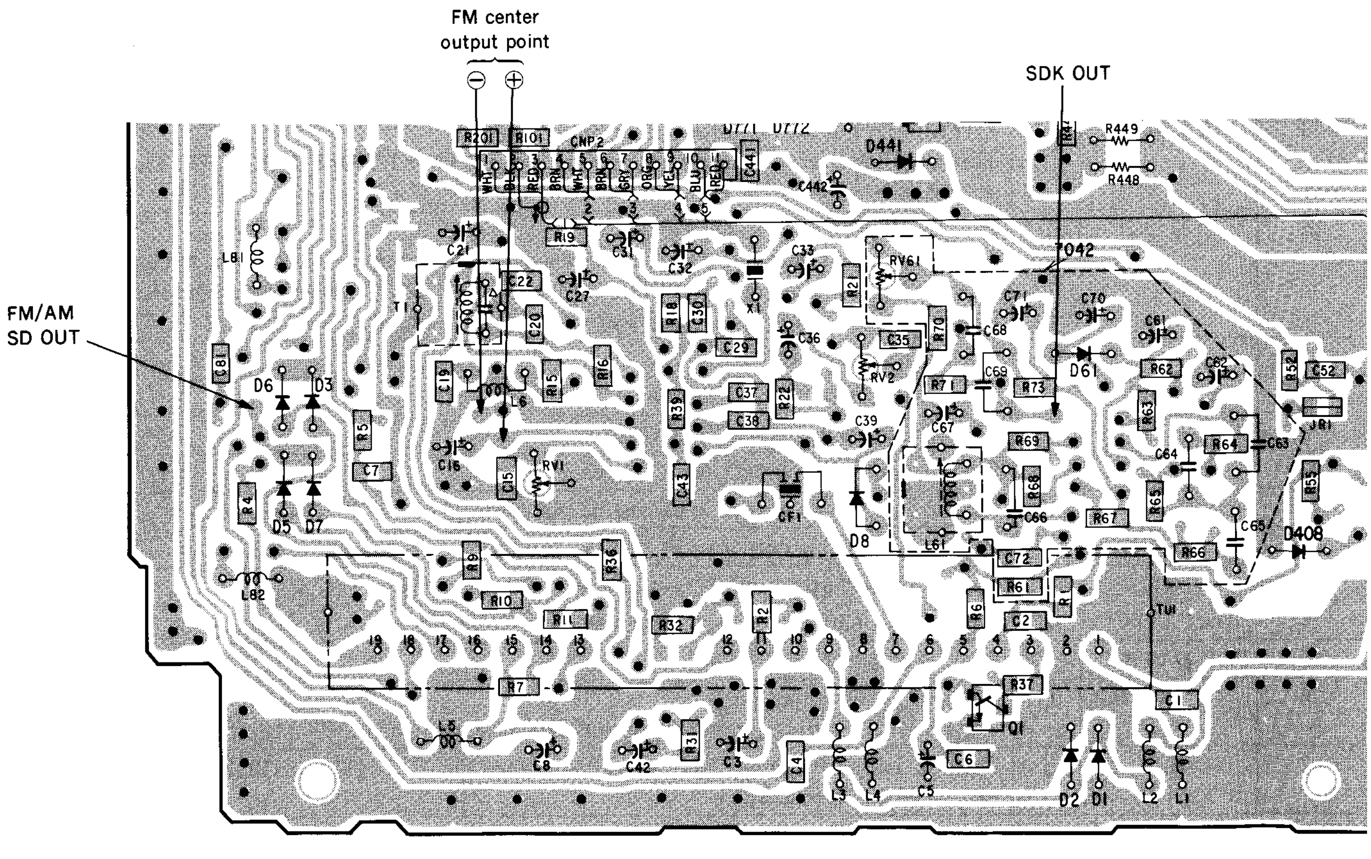
Carrier frequency : 98MHz
Output level : 60dB (1mV)
Mode : mono
Modulation : 1kHz, 7.5kHz deviation


oscilloscope
SDK OUT
+
−

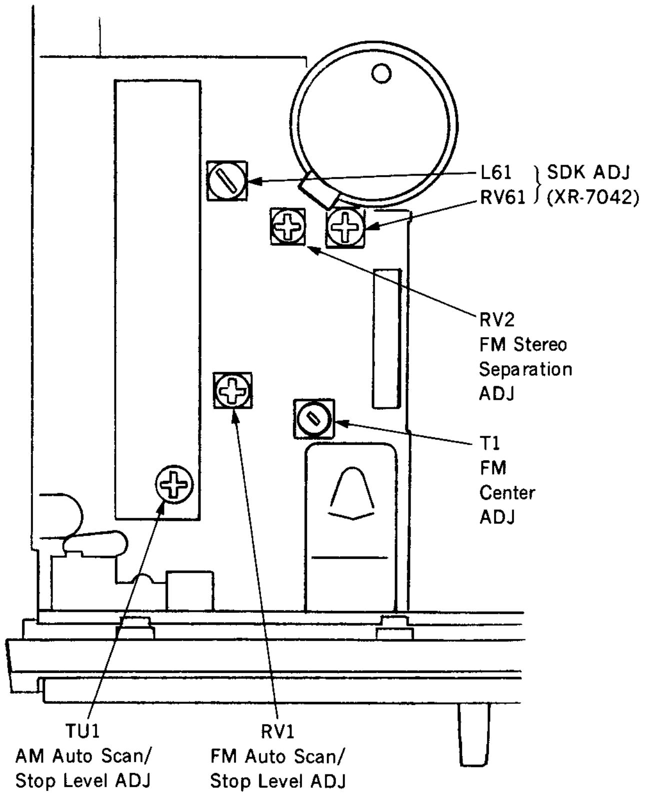
Procedure :

1. Adjust L61 and RV501 so that the output waveform become the maximum.

Adjustment Location : main board (conductor side)


FM center output point
⊖
⊕
SDK OUT
FM/AM SD OUT
RV61
RV2
RV1
T1
L61
L6
D61
7042
TU1
Q1
D441
D408

Adjustment Location : main board (component side)


L61
RV61
SDK ADJ (XR-7042)
RV2
FM Stereo Separation ADJ
T1
FM Center ADJ
TU1
AM Auto Scan/ Stop Level ADJ
RV1
FM Auto Scan/ Stop Level ADJ

SECTION 5
DIAGRAMS

5-1. PIN DESCRIPTION

• IC701 μPD75518GF-096-3B9

Pin No.	Pin Name	I/O	Description
1	K0	—	The value AD converted through the key input pin is used to determine that key.
2	V. REF	—	Pin to supply power for AD conversion.
3, 4	VDD	—	Microcomputer power pin.
5	KEY-ACT	O	KEY ACTIVE output pin Pin used to control AV_{REF} power for key A/D conversion input. This pin is set HIGH to supply AV_{REF} power in order to enable any KEY input.
6	P-ON	O	POWER ON/OFF control This pin allows ON/OFF control of the system power. HIGH output sets POW-ON while LOW output sets POW-OFF. Also, POW-ON sets illumination other than function key illumination ON.
7	ILL-ON	O	Illumination control output pin Output pin used for function key illumination control. HIGH to turn illumination ON (HIGH output). When P-SEL (POWER-SELECT) (pin (75)) is set ON, ACC-ON sets illumination ON while ACC-OFF sets illumination OFF (LOW output).
8	COLOR	O (I)	COLOR control output pin Illumination color select pin. GREEN = HIGH output, AMBER = LOW output. This color is initialized to AMBER. Either 〈SEL〉+1 keys or 〈ILL〉 key is used to select color. Note that when reset, this pin is read as output and HIGH output makes 〈SEL〉+1 keys invalid.
9	MUTE	O	AUDIO MUTE output pin This provides HIGH output in MUTE mode and sets the electronic volume to $-\infty$.
10	AUX-MUTE	—	Not used.
11	DOLBY-ON	—	Not used.
12	—	—	Not used.
13	ANT-REM	—	Not used.
14	AMS-PL	—	Not used.
15	MD-POWER	O	TAPE (MD) POWER control output pin This pin allows power control of capstan motor (CM), KEY-OFF PLUNGER. This output is set HIGH to turn TAPE ON.
16	LCD-INH	O	Pin for inhibit output to LCD-driver IC This is the serial interface with LCD driver IC, LC7582 and connected with No. pin (57) of the LC7582. HIGH output causes all LCD's to be turned OFF. To aboid incorrect display during POWER-ON, this output is precessed with the fig. 1 timing : (See page 21.)
17	—	—	Not used. Connect to GND.
18	LCD-DATA	O	Pin for data output to LCD-driver IC
19	LCD-CLK	O	Pin for clock output to LCD-driver IC
20	LCD-CE	O	Pin for chip enable output to LCD-driver IC
21	VOL-CE	O	Pin for chip enable output to electronic volume IC
22	PLL-CE	O	Pin for chip enable output to PLL IC
23	CLK	O	Pin for clock output to PLL IC and electronic volume IC
24	DATA-OUT	O	Pin for data output to PLL IC and electronic volume IC
25	PLL DATA-IN	I	Pin for data input to PLL IC
26	MTL	O	METAL select output pin Tape METAL output pin which outputs HIGH signal when METAL tape is selected.
27	ILL	I	Used for initialization of illumination color when the CDX-U30. Set HIGH to select AMBER while LOW to select GREEN.

Pin No.	Pin Name	I/O	Description
28	CA-ALARM	I	Used for initialization of CAUSION ALARM $\overline{\text{available}}$/not available setting. CAUSION ALARM available=LOW CAUSION ALARM not available=HIGH
29—32	—	—	Not used.
33	GND	—	GND
34	$\overline{\text{PACK-IN}}$	I	PACK IN input pin Tape insertion in the cassette is detected. This pin is set LOW when tape is packed in the cassette.
35	$\overline{\text{FF/REW}}$	I	FF/REW MUTE REQUEST pin This pin is set LOW when tape is in the FF or REW mode. This input is detected to trigger AUDIO-MUTE. *Note: Even when changing the tape direction (AUTO REVERSE), this pin is set low. To determine to switch from FF/REW to DIRECTION-CHANGE is controlled by time. Refer to fig. 2. (See page 21.)
36	N/$\overline{\text{R}}$	I	NORMAL/$\overline{\text{REVERSE}}$ input pin Pin used to detect the direction of tape run. NORMAL direction=HIGH REVERSE direction=LOW
37	—	—	Not used. Connect to GND.
38—41	—	—	Not used.
42	$\overline{\text{S. RESET}}$	O	BUS INTERFACE SYSTEM RESET output pin Pin for SYSTEM RESET output to UNILINK. When 20msec has elapsed after RESET, LOW output is supplied for 50 (40 to 60) msec.
43	$\overline{\text{BUS-ON}}$	O	BUS INTERFACE BUS ON output pin This pin provides BUS ON output to UNILINK.
44	CLOCK-OUT	O	BUS INTERFACE CLK output pin This pin provides data clock output to UNILINK.
45	BEEP	O	BEEP sound output pin For the BEEP sound and audible alarm activated when a key is accepted, a square wave of approx. 2kHz is output for 40msec. A square wave of approx. 1kHz is output for 40msec when that key is continuously pressed and hold down 2sec. At end of auto memory (BTM) and memory scan, approx. 2kHz is output for 40msec and at an interval of 150msec, approx. 2kHz is output for 40msec.
46	$\overline{\text{ACC-CHECK}}$	I	Accessory power detection pin LOW input causes the ACC to be turned ON.
47	$\overline{\text{KEY-ACK}}$	I	KEY-ACKNOWLEDGE input pin Input pin for acknowledge signal used to accept any of the function keys such as FM/AM (FM WW/LW), CD, TAPE and TV from the POWER-OFF mode and to accept the EJECT (tape) key.
48, 49	—	—	Not used. Connect to GND.
50	DATA-IN	I	BUS INTERFACE data input pin
51	DATA-OUT	O	BUS INTERFACE data output pin
52	CLOCK-IN	I	BUS INTERFACE clock input pin
53	BU-CHECK	I	BACK UP detection input pin
54	GND	—	GND
55	XT1	—	Sub system clock (for clock) This is connected with 32.768kHz crystal oscillator.
56	XT2	—	
57	IC	—	Not used. Connect to GND.
58	X1	—	Main system clock This is connected with 6MHz ceramic oscillator.
59	X2	—	
60	$\overline{\text{RESET}}$	—	Microcomputer reset pin

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>61</td><td>—</td><td>—</td><td>Not used. Connect to GND.</td></tr>
<tr><td>62</td><td>DK</td><td>I</td><td>DK input pin</td></tr>
<tr><td>63</td><td>SK</td><td>I</td><td>SK input pin</td></tr>
<tr><td>64</td><td>SD-OUT</td><td>O</td><td>SD output pin
This pin provides "LOW" level output during AM reception.</td></tr>
<tr><td>65</td><td>SD-IN</td><td>I</td><td>SD input pin
This is used to determine the stop level of SEEK, AUTO-MEMORY, SCAN and other operations.</td></tr>
<tr><td>66</td><td>$\overline{\text{TEL-MUTE}}$</td><td>I</td><td>TEL-MUTE input pin
"LOW" level to activate TEL-MUTE function.
The electronic volume is used to attenuate audio signal by 20dB.</td></tr>
<tr><td>67</td><td>$\overline{\text{STEREO-IN}}$</td><td>I</td><td>STEREO input pin
"LOW" level for STEREO.
When this input is changed, the display data will be sent. In forced monaural output mode, this pin is set to "LOW" level and therefore the display data will be always sent as "0".</td></tr>
<tr><td>68</td><td>$\overline{\text{NSW}}$</td><td>I</td><td>Nose attachment detection input pin
LOW : Nose attached (Nose available)
HIGH : Nose removed (Nose not available)</td></tr>
<tr><td>69</td><td>$\overline{\text{AM-ON}}$</td><td>O</td><td>AM power control output pin
In AM (MW, LW) mode, this pin provides LOW output (for both PLAYING and BEHIND).
In any other mode, this provides HIGH output (high impedance due to Nch open drain output).
To switch between MW and LW, OUT3 (pin ③) of PLL-IC, LC7216 is used.</td></tr>
<tr><td>70</td><td>$\overline{\text{FM-ON}}$</td><td>O</td><td>FM power control output pin
In FM mode, this pin provides LOW output (for both PLAYING and BEHIND).
In any other mode, this provides HIGH output (high impedance due to Nch open drain output).</td></tr>
<tr><td>71</td><td>SIG1</td><td>O</td><td rowspan="2">Audio source select control output pin
The following outputs are provided :
<table>
<tr><th></th><th>TAPE</th><th>TUNER</th><th>AUX (CD)</th></tr>
<tr><td>0</td><td>1</td><td>0</td><td>1</td></tr>
<tr><td>1</td><td>0</td><td>0</td><td>1</td></tr>
</table></td></tr>
<tr><td>72</td><td>SIG0</td><td>O</td></tr>
<tr><td>73</td><td>VSS-REF</td><td>—</td><td>GND pin for A/D conversion.</td></tr>
<tr><td>74</td><td>T-OPTION</td><td>I</td><td>Input pin for initialization of MTL, DOLBY and AMS available/not available
When reset, this pin is read to initialize tape METAL, DOLBY and AMS function available/not abailable.
LOW : METAL, DOLBY and AMS function abailable
HIGH : METAL, DOLBY and AMS function not abailable</td></tr>
<tr><td>75</td><td>P-SEL</td><td>I</td><td>POWER-SELECT initialization input pin
When reset, this pin is read to initialize POWER-SELECT.
LOW : With BACKUP, ACC, NSW=ON, this input sets function key illumination ON together with clock display when POWER-OFF is set. Refer to ILL-ON (pin ⑦).</td></tr>
<tr><td>76</td><td>D-S1</td><td>—</td><td rowspan="2">Initialization-for-destination pin
When reset, after become stabilized power, use on AD exchange is read to initialization-for-destination.</td></tr>
<tr><td>77</td><td>D-S0</td><td>—</td></tr>
<tr><td>78</td><td>AM-SM</td><td>—</td><td>Pin to input the AM band's signal meter (electric field strength) through A/D conversion.
Used with BTM (best tuning memory) selected.</td></tr>
<tr><td>79</td><td>FM-SM</td><td>—</td><td>Pin to input the FM band's signal meter (electric field strength) through A/D conversion.
Used with BTM (best tuning memory) selected.</td></tr>
<tr><td>80</td><td>K1</td><td>—</td><td>The value AD converted through the key input pin is used to determine that key.</td></tr>
</table>

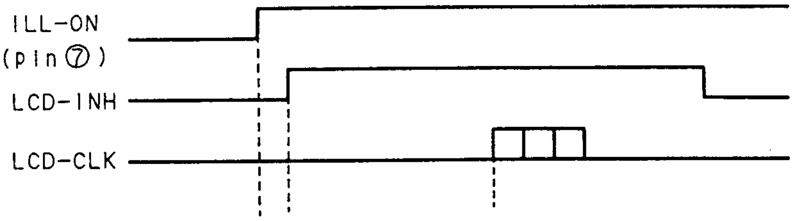


Fig. 1

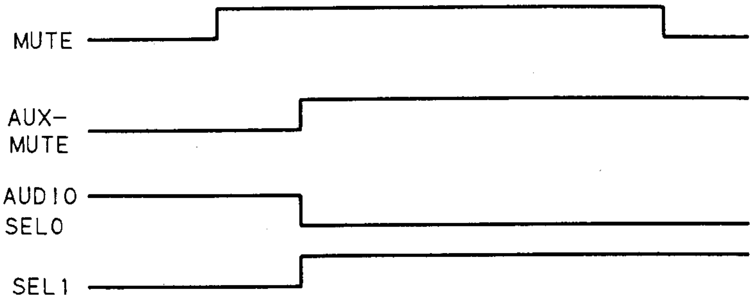
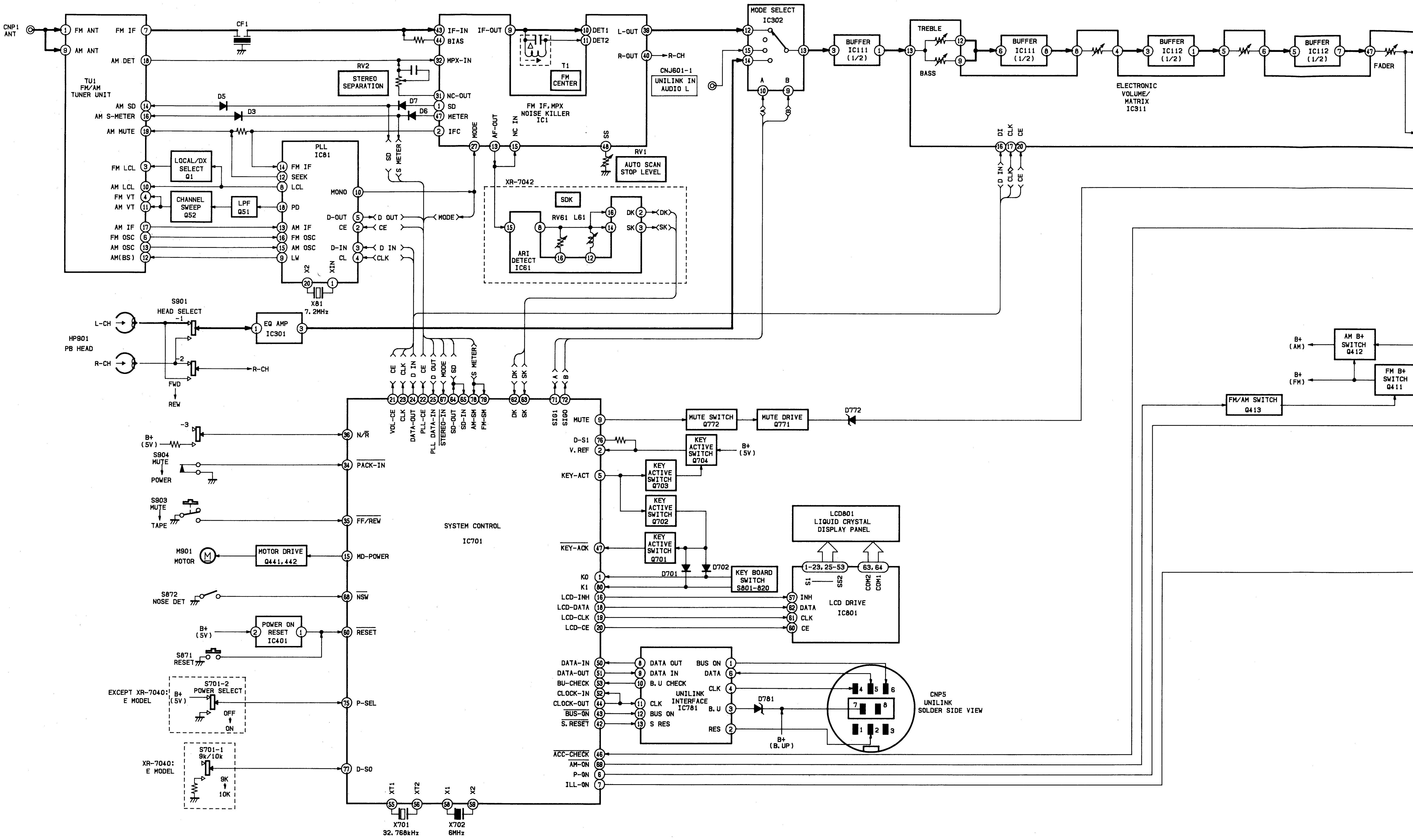


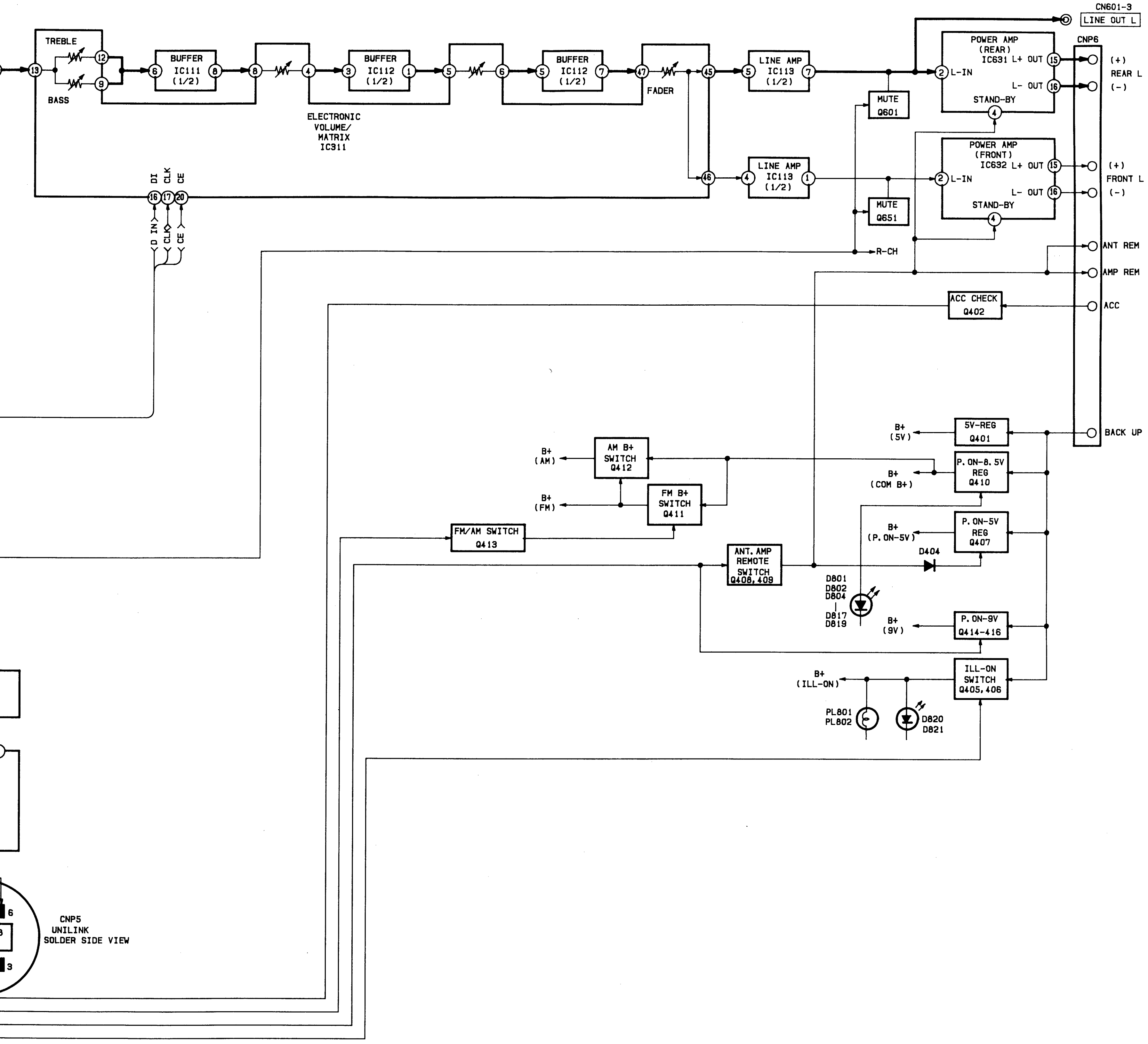
Fig. 2

● IC81 LC7216

Pin No.	Pin Name	I/O	Description
1	XIN	I	Crystal oscillator connection (7.2MHz)
2	CE	—	Chip enable input pin
3	D-IN	—	Data input pin
4	CL	—	Clock input pin
5	D-OUT	—	Data output pin
6	IN0	—	Not used.
7	IN1	—	Not used.
8	LCL	O	LOCAL/$\overline{\text{DX}}$ select output pin
9	LW	O	"H" level output in MW band mode.
10	MONO	O	Forced monaural output pin This pin provides "L" level output in forced monaural mode.
11	OUT4	—	Not used.
12	SEEK	O	SEEK output pin This pin provides HIGH output during SEEK, BTM, AF operation and network operation.
13	AMIF	—	General-purpose counter frequency measurement signal input pin.
14	FMIF	—	General-purpose counter frequency measurement signal input pin.
15	AMOSC	—	AM local station oscillation signal input
16	FMOSC	—	FM local station oscillation signal input
17	VDD	—	Power pin
18	PD	—	Charge pump output pin
19	GND	—	GND
20	X2	O	Crystal oscillator connection (7.2MHz)

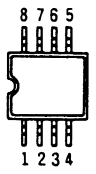
5-2. BLOCK DIAGRAM


CNP1
ANT
FM ANT
AM ANT
FM IF
AM DET
TU1
FM/AM
TUNER UNIT
AM SD
AM S-METER
AM MUTE
FM LCL
AM LCL
FM VT
AM VT
AM IF
FM OSC
AM OSC
AM(BS)
CF1
D5
D3
D7
D6
RV2
STEREO
SEPARATION
LOCAL/DX
SELECT
Q1
CHANNEL
SWEEP
Q52
LPF
Q51
PLL
IC81
FM IF
SEEK
LCL
PD
AM IF
FM OSC
AM OSC
LW
MONO
D-OUT
CE
D-IN
CL
X2
XIN
X81
7.2MHz
D OUT
D IN
CLK
MODE
IF-IN
BIAS
MPX-IN
NC-OUT
SD
METER
IFC
IF-OUT
DET1
DET2
T1
FM
CENTER
FM IF,MPX
NOISE KILLER
IC1
MODE
AF-OUT
NC IN
SS
L-OUT
R-OUT
R-CH
CNJ601-1
UNILINK IN
AUDIO L
RV1
AUTO SCAN
STOP LEVEL
XR-7042
SDK
ARI
DETECT
IC61
RV61
L61
DK
SK
S METER
MODE SELECT
IC302
A
B
BUFFER
IC111
(1/2)
TREBLE
BASS
BUFFER
IC112
(1/2)
ELECTRONIC
VOLUME/
MATRIX
IC311
FADER
DI
CLK
CE
D IN
S901
HEAD SELECT
L-CH
R-CH
HP901
PB HEAD
FWD
REW
EQ AMP
IC301
B+
(5V)
S904
MUTE
POWER
S903
MUTE
TAPE
M901
MOTOR
MOTOR DRIVE
Q441,442
S872
NOSE DET
POWER ON
RESET
IC401
S871
RESET
EXCEPT XR-7040:
E MODEL
S701-2
POWER SELECT
OFF
ON
XR-7040:
E MODEL
S701-1
9k/10k
9K
10K
N/R
PACK-IN
FF/REW
MD-POWER
NSW
RESET
P-SEL
D-SO
SYSTEM CONTROL
IC701
VOL-CE
CLK
DATA-OUT
PLL-CE
PLL DATA-IN
STEREO-IN
SD-IN
AM-SW
FM-SW
SIG1
SIG0
XT1
XT2
X1
X2
X701
32.768kHz
X702
6MHz
MUTE
D-S1
V.REF
KEY-ACT
KEY-ACK
K0
K1
LCD-INH
LCD-DATA
LCD-CLK
LCD-CE
DATA-IN
DATA-OUT
BU-CHECK
CLOCK-IN
CLOCK-OUT
BUS-ON
S.RESET
ACC-CHECK
AM-ON
P-ON
ILL-ON
MUTE SWITCH
Q772
MUTE DRIVE
Q771
D772
KEY
ACTIVE
SWITCH
Q704
Q703
Q702
Q701
D701
D702
KEY BOARD
SWITCH
S801-820
LCD801
LIQUID CRYSTAL
DISPLAY PANEL
1-23,25-53
63,64
S1
S52
COM2
COM1
INH
DATA
CLK
CE
LCD DRIVE
IC801
DATA OUT
DATA IN
B.U CHECK
CLK
BUS ON
S RES
UNILINK
INTERFACE
IC781
BUS ON
DATA
CLK
B.U
RES
D781
B+
(B.UP)
CNP5
UNILINK
SOLDER SIDE VIEW
B+
(AM)
B+
(FM)
AM B+
SWITCH
Q412
FM B+
SWITCH
Q411
FM/AM SWITCH
Q413


TREBLE
BASS
13
12
9
BUFFER IC111 (1/2)
6
8
ELECTRONIC VOLUME/ MATRIX IC311
BUFFER IC112 (1/2)
3
1
4
5
BUFFER IC112 (1/2)
7
47
FADER
45
46
LINE AMP IC113 (1/2)
LINE AMP IC113 (1/2)
MUTE Q601
MUTE Q651
POWER AMP (REAR) IC631
L+ OUT
L- OUT
L-IN
STAND-BY
15
16
2
4
POWER AMP (FRONT) IC632
L+ OUT
L- OUT
L-IN
STAND-BY
CN601-3
LINE OUT L
CNP6
(+) REAR L (-)
(+) FRONT L (-)
ANT REM
AMP REM
ACC
BACK UP
DI
CLK
CE
16
17
20
D IN
CLK
CE
R-CH
ACC CHECK Q402
5V-REG Q401
B+ (5V)
P. ON-8.5V REG Q410
B+ (COM B+)
AM B+ SWITCH Q412
B+ (AM)
FM B+ SWITCH Q411
B+ (FM)
FM/AM SWITCH Q413
ANT. AMP REMOTE SWITCH Q408,409
P. ON-5V REG Q407
B+ (P. ON-5V)
D404
D801 D802 D804 | D817 D819
P. ON-9V Q414-416
B+ (9V)
ILL-ON SWITCH Q405,406
B+ (ILL-ON)
PL801 PL802
D820 D821
6
3
CNP5 UNILINK SOLDER SIDE VIEW

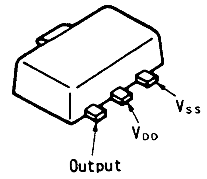
5-3. SEMICONDUCTOR LEAD LAYOUTS

BA328F
RC4558DR-A

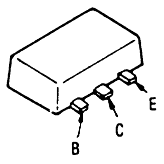


(TOP VIEW)

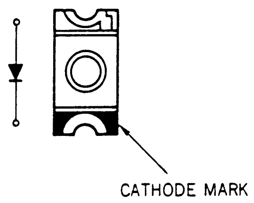
RH5VA40AA


VSS
VDD
Output

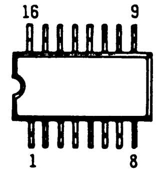
2SB1115A
2SD1664-QR



AY1101W-88

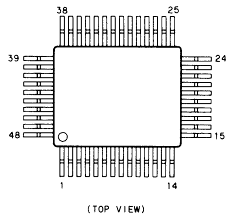

CATHODE MARK

BU4052BF

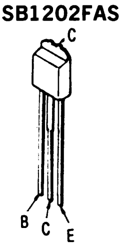


(TOP VIEW)

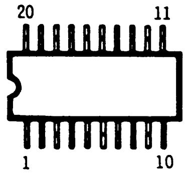
TA2027F


38
25
39
24
48
15
1
14
(TOP VIEW)

2SB1202FAST

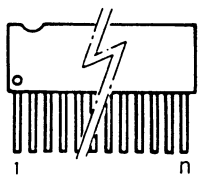


LC7216M
TDA1579T

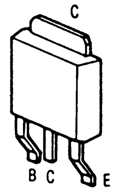


(TOP VIEW)

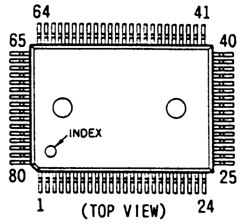
TA8215H



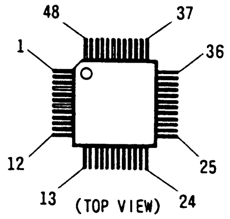
2SD1802FA-S



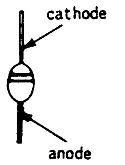
μPD75518GF-096-3B9


64
41
65
40
INDEX
80
25
1
24
(TOP VIEW)

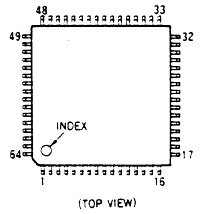
LC7537AN


48
37
1
36
12
25
13
24
(TOP VIEW)

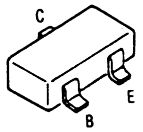
DSA3A4


cathode
anode

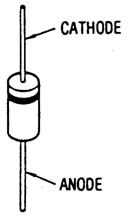
LC7582


48
33
49
32
INDEX
64
17
1
16
(TOP VIEW)

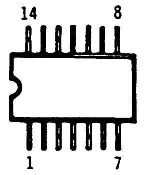
DTC314TKH04
RN1402
RN1411-TE85L
RN2402
2SA1162-G
2SC2412KLN-E
2SC2712-YG



RD10ES-B2
RD4.3ES-B2

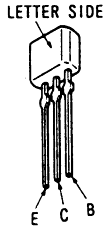

CATHODE
ANODE

MM1175XF-T1

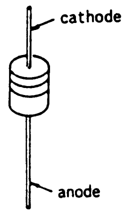


(TOP VIEW)

2SA1150


LETTER SIDE
E
C
B

RD3.6ES-B2
RD5.1ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD7.5ES-B2
RD9.1ES-B2
1SS119
11ES2

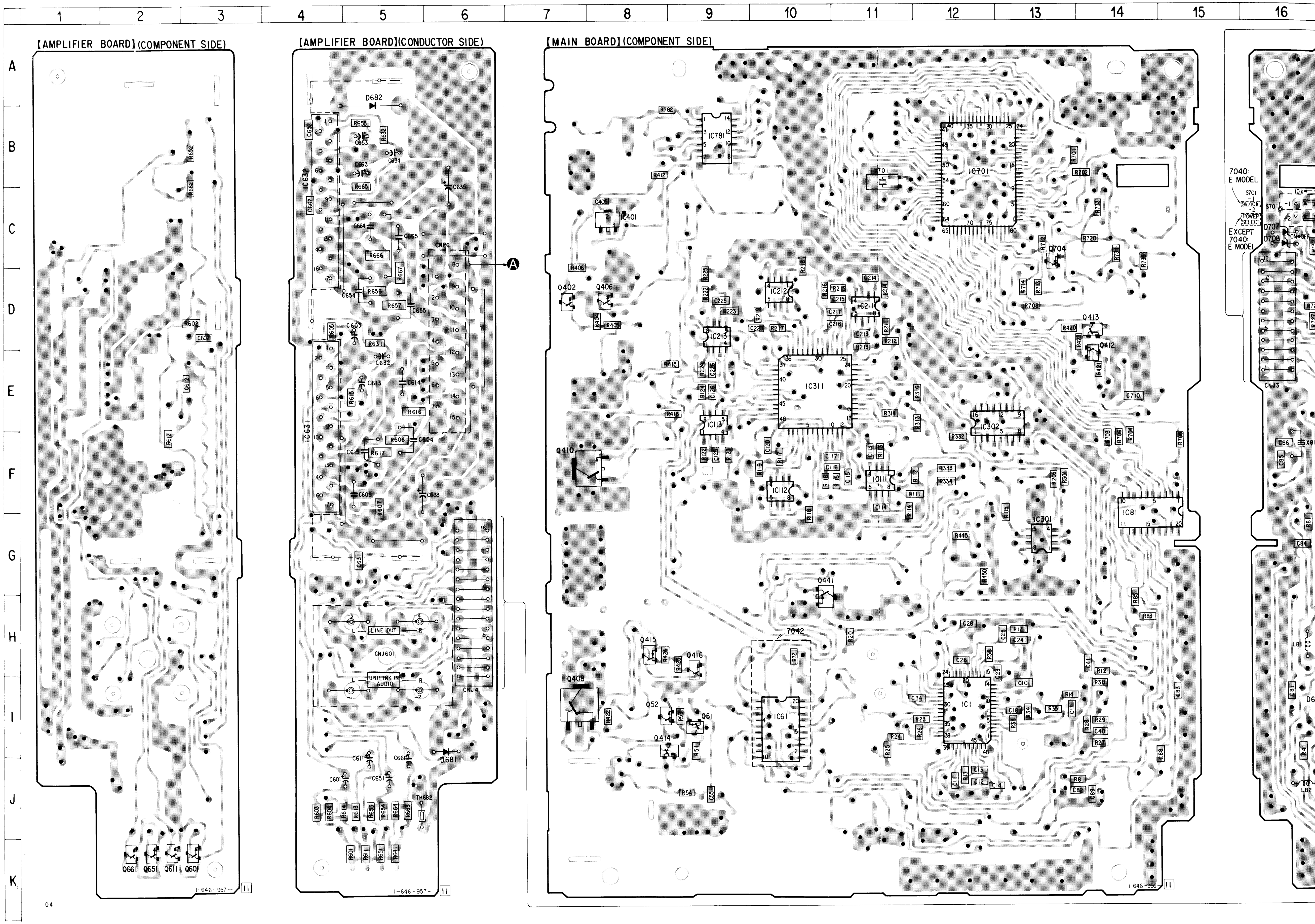

cathode
anode

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	K-21	IC1	I-12
D2	K-20	IC61	I-10
D3	I-17	IC81	G-14
D5	J-16	IC111	F-11
D6	I-16	IC112	F-10
D7	J-16	IC113	E-9
D8	J-19	IC211	D-11
D61	I-21	IC212	D-10
D301	F-18	IC213	D-9
D311	G-21	IC301	G-13
D312	C-21	IC302	E-12
D401	D-22	IC311	E-10
D402	E-23	IC401	C-8
D403	E-23	IC631	F-4
D404	H-23	IC632	B-4
D406	D-22	IC701	B-12
D407	E-22	IC781	B-9
D408	J-22	IC801	I-35
D441	H-19		
D681	I-6	Q1	K-20
D682	A-5	Q51	I-9
D701	C-17	Q52	I-8
D702	C-17	Q401	D-22
D703	D-17	Q402	D-7
D704	D-17	Q405	D-5
D705	D-17	Q406	D-8
D706	D-17	Q407	E-23
D707	C-16	Q408	I-7
D708	C-16	Q409	I-23
D771	G-19	Q410	F-7
D772	G-19	Q411	E-17
D781	B-22	Q412	D-14
D782	B-22	Q413	D-14
D783	B-23	Q414	I-8
D801	A-32	Q415	H-8
D802	A-33	Q416	H-9
D804	C-33	Q441	G-10
D805	B-32	Q442	G-20
D806	B-33	Q601	K-3
D807	C-32	Q611	K-2
D808	D-32	Q651	K-2
D809	D-32	Q661	K-2
D810	E-32	Q701	C-17
D811	F-33	Q702	C-17
D812	E-33	Q703	C-17
D813	F-32	Q704	C-13
D814	G-32	Q771	G-19
D815	G-33	Q772	G-18
D816	I-32		
D817	I-32	THP682	J-5
D819	H-32		
D820	A-31		
D821	A-31		
D831	G-34		
D891	G-35		
D901	D-22		

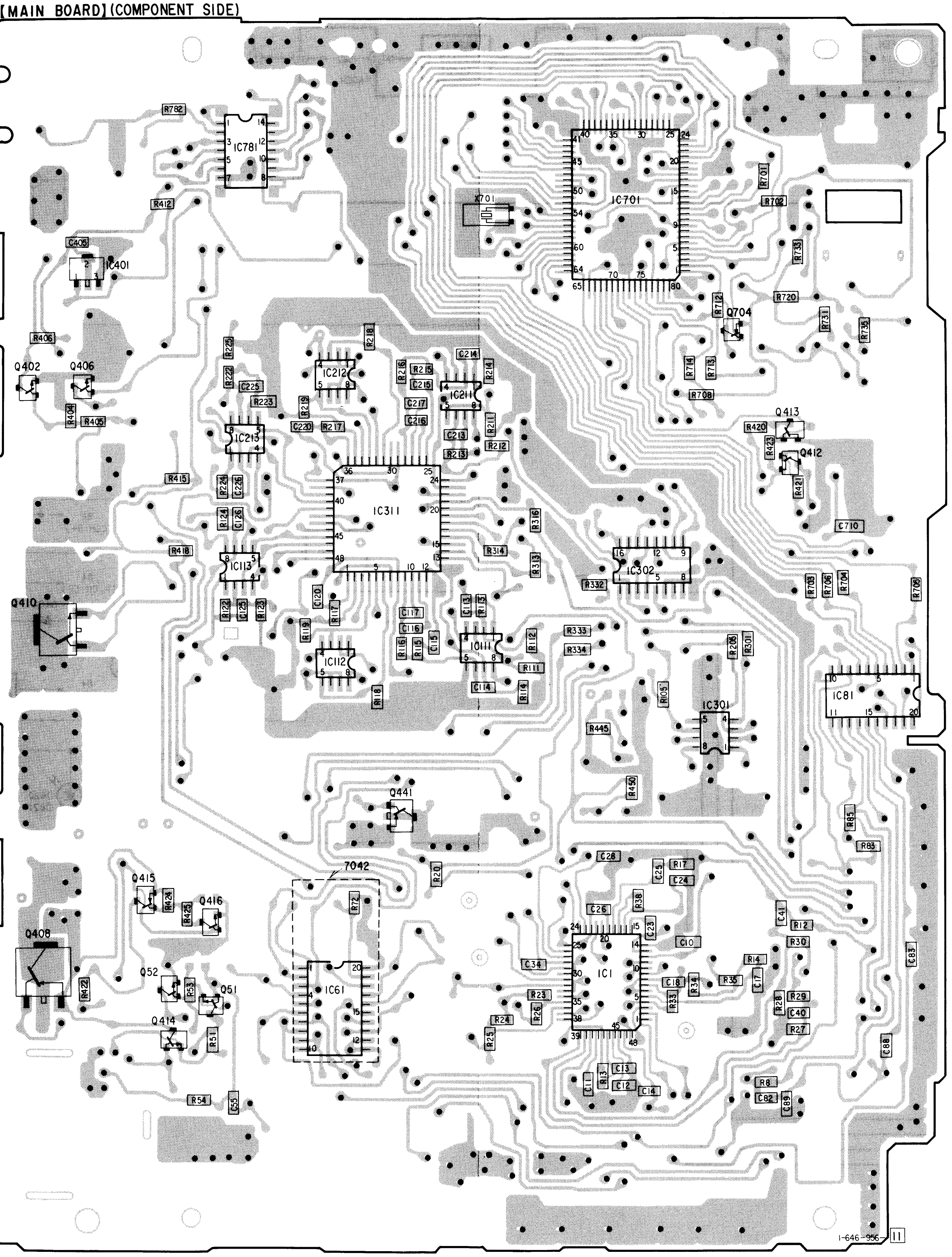
Note:
- ○—— : parts extracted from the component side.
- ● : Through hole.

5-4. PRINTED WIRING BOARDS • Refer to page 25 for Semiconductor Lead Layouts.


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
[AMPLIFIER BOARD] (COMPONENT SIDE)
[AMPLIFIER BOARD] (CONDUCTOR SIDE)
[MAIN BOARD] (COMPONENT SIDE)
IC631
IC632
D682
D681
CNP6
A
LINE OUT
CNJ601
UNILINK IN AUDIO
CNJ4
TH682
Q661
Q651
Q611
Q601
IC781
IC701
X701
IC401
Q402
Q406
IC212
IC211
IC213
IC311
IC113
IC302
IC111
IC112
Q410
IC81
IC301
Q441
Q413
Q412
Q704
7042
Q415
Q416
Q408
Q52
Q51
Q414
IC61
IC1
7040: E MODEL
EXCEPT 7040: E MODEL
S701
POWER SELECT
D707
D708
CNJ3
1-646-957-11
1-646-957-11
1-646-956-11
04

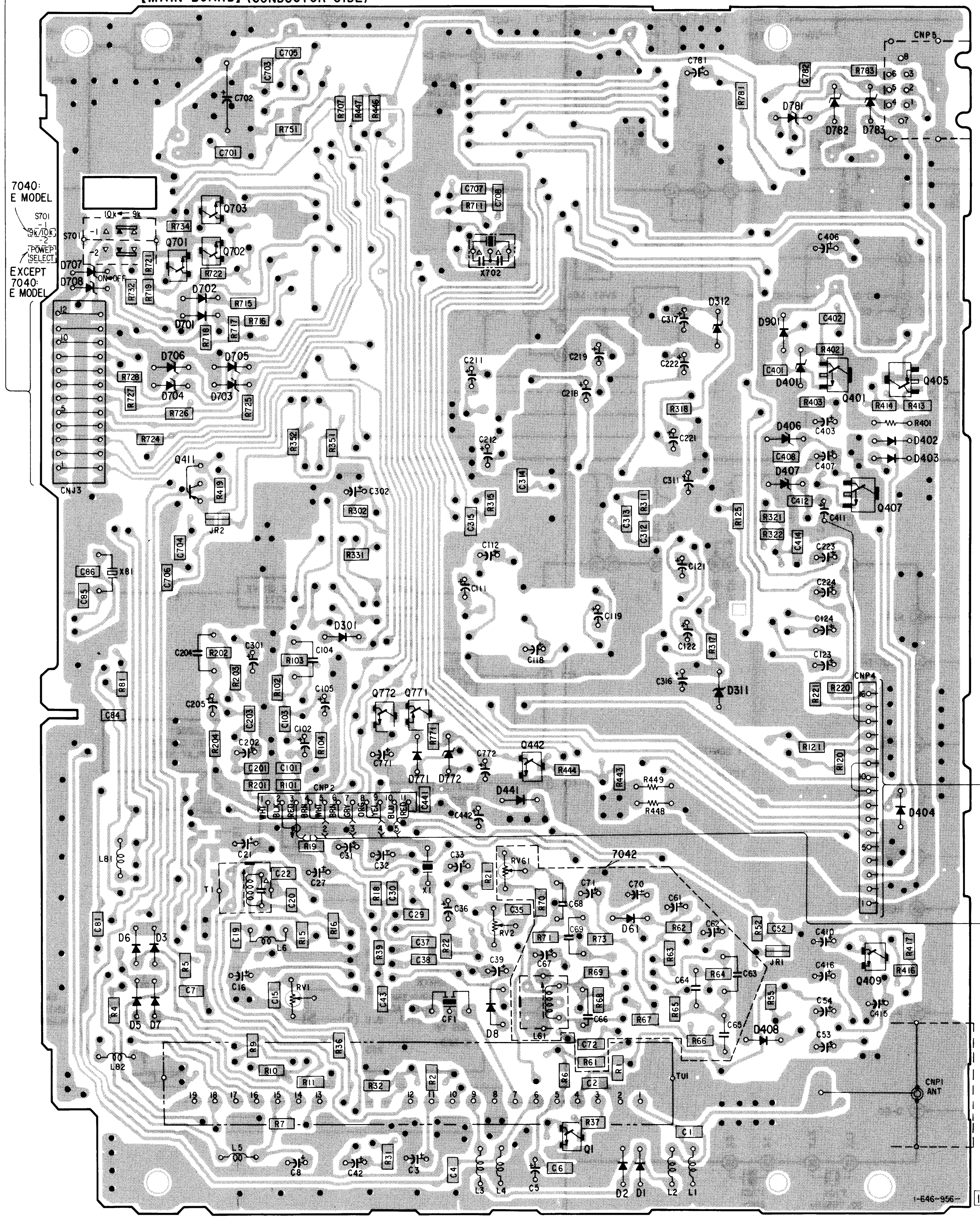
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

[MAIN BOARD] (COMPONENT SIDE)



IC781
IC701
IC212
IC211
IC213
IC311
IC113
IC302
IC112
IC111
IC301
IC81
IC61
IC1
Q401
Q402
Q406
Q410
Q408
Q415
Q416
Q52
Q51
Q414
Q441
Q704
Q413
Q412
X701
7042
1-646-956-11

[MAIN BOARD] (CONDUCTOR SIDE)

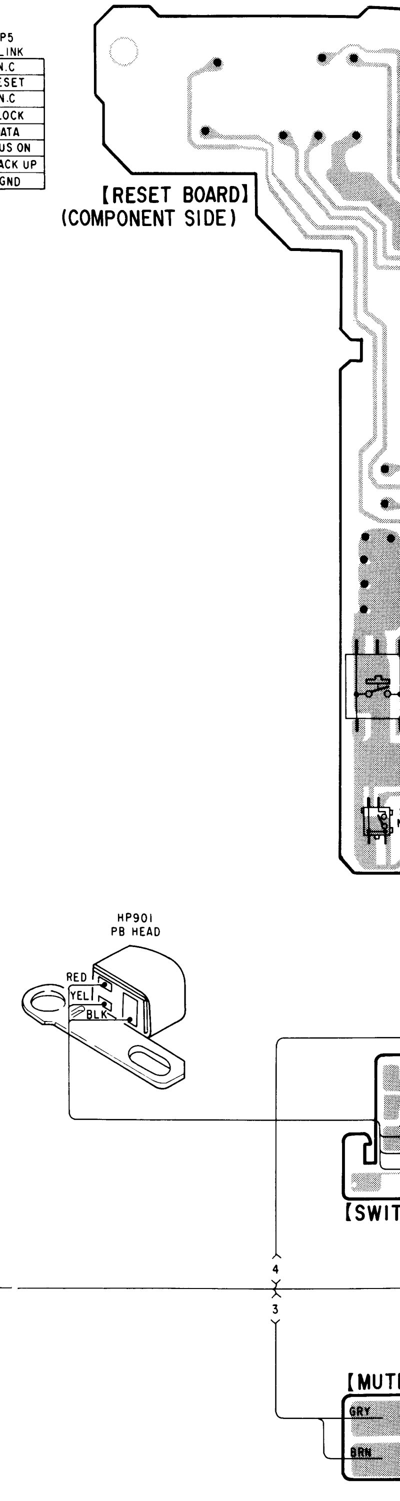


7040: E MODEL
S701
POWER SELECT
EXCEPT 7040: E MODEL
CNJ3
CNP2
CNP4
CNP8
CNP1 ANT
X702
X81
7042
JR1
JR2
1-646-956-11

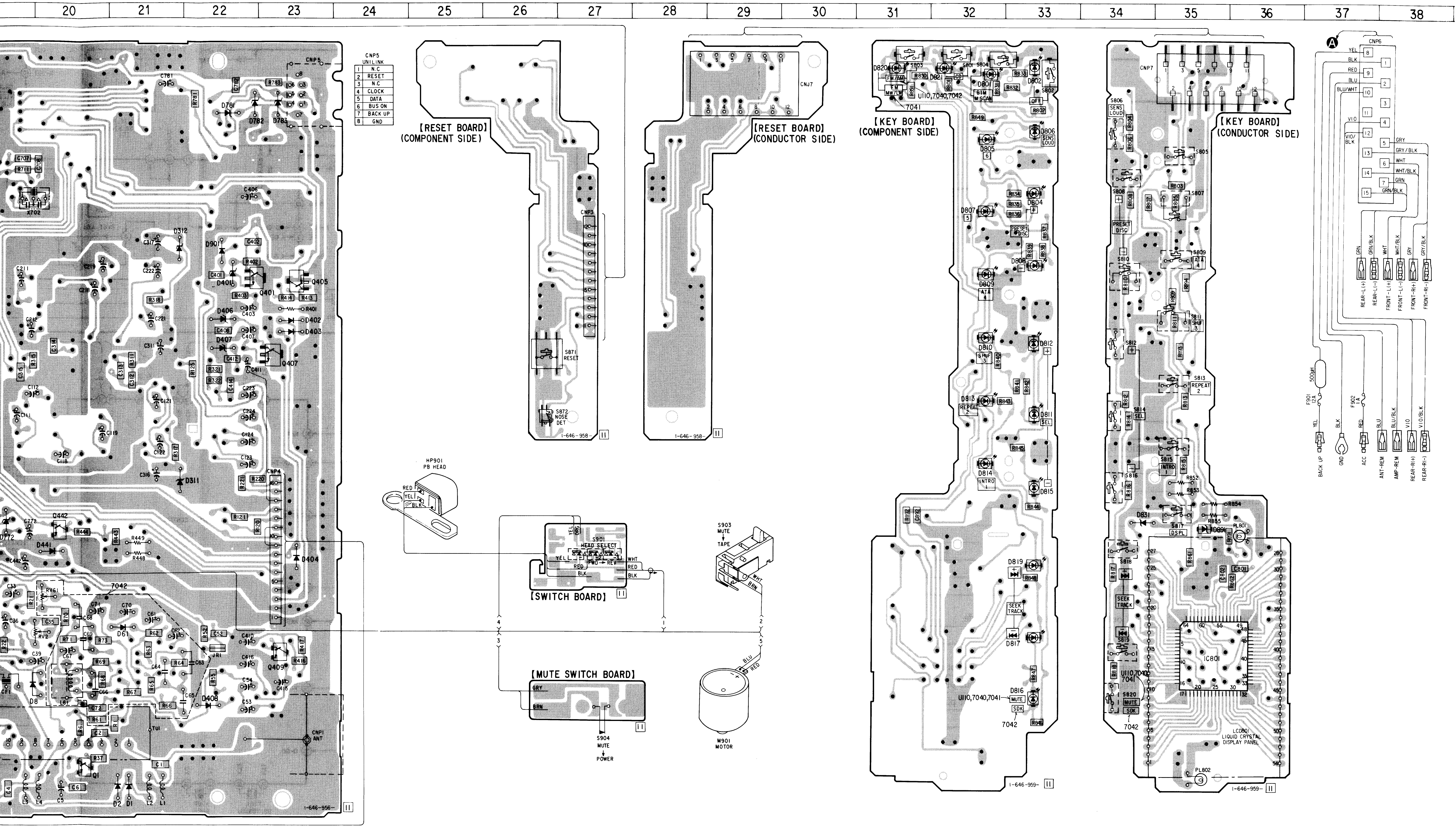
CNP5 UNILINK

1	N.C
2	RESET
3	N.C
4	CLOCK
5	DATA
6	BUS ON
7	BACK UP
8	GND

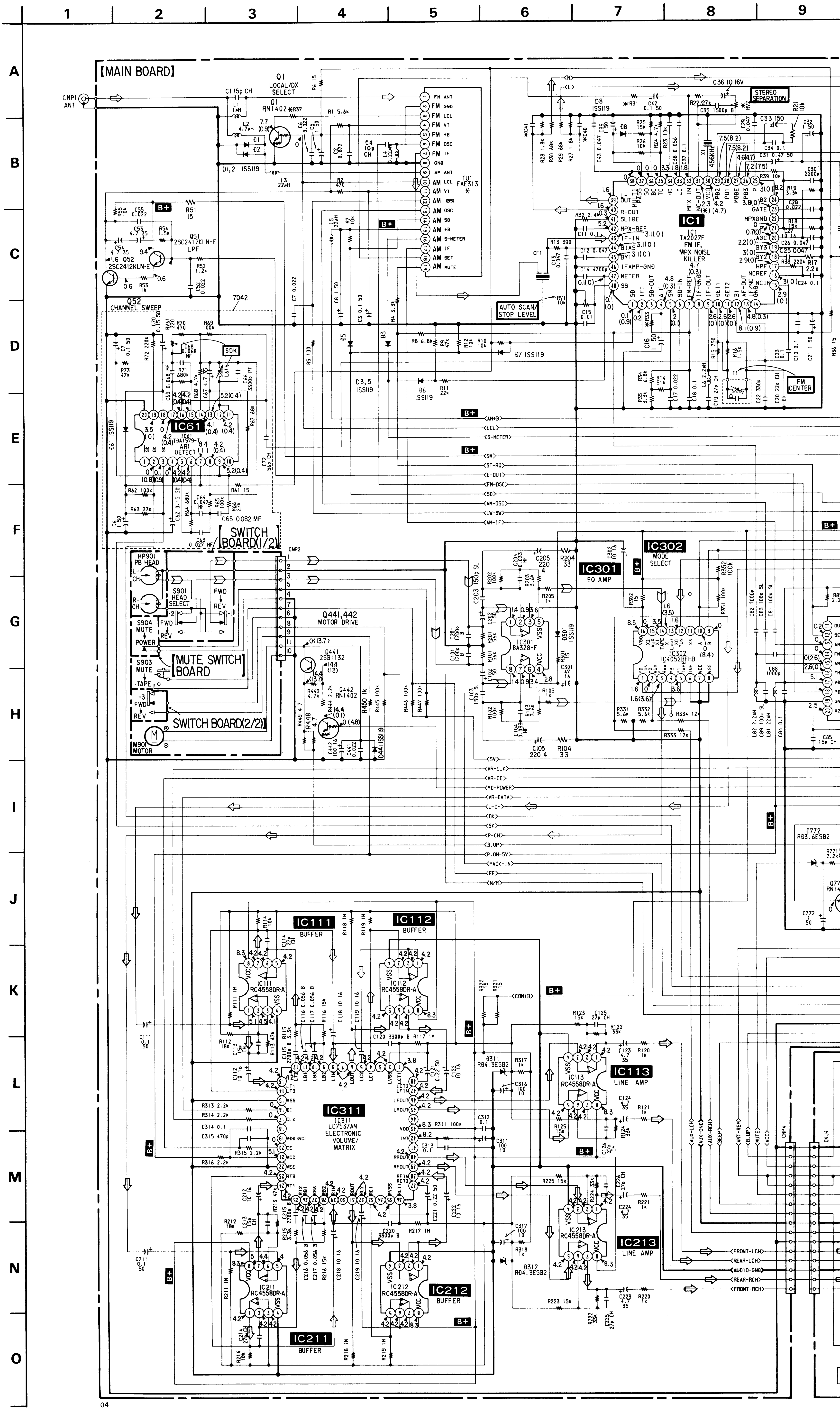
[RESET BOARD] (COMPONENT SIDE)



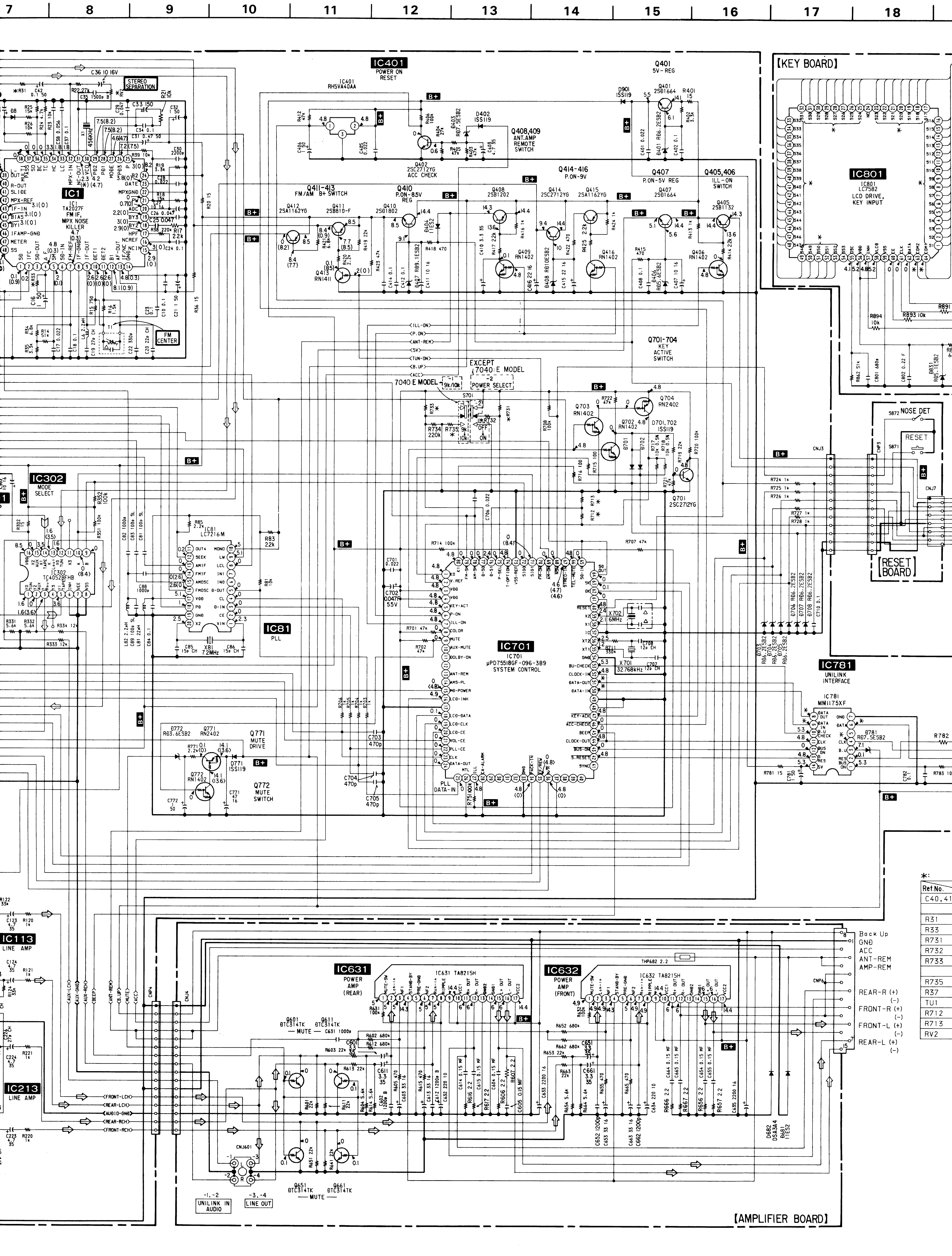
HP901 PB HEAD
RED
YEL
BLK
[SWIT
[MUT
GRY
BRN

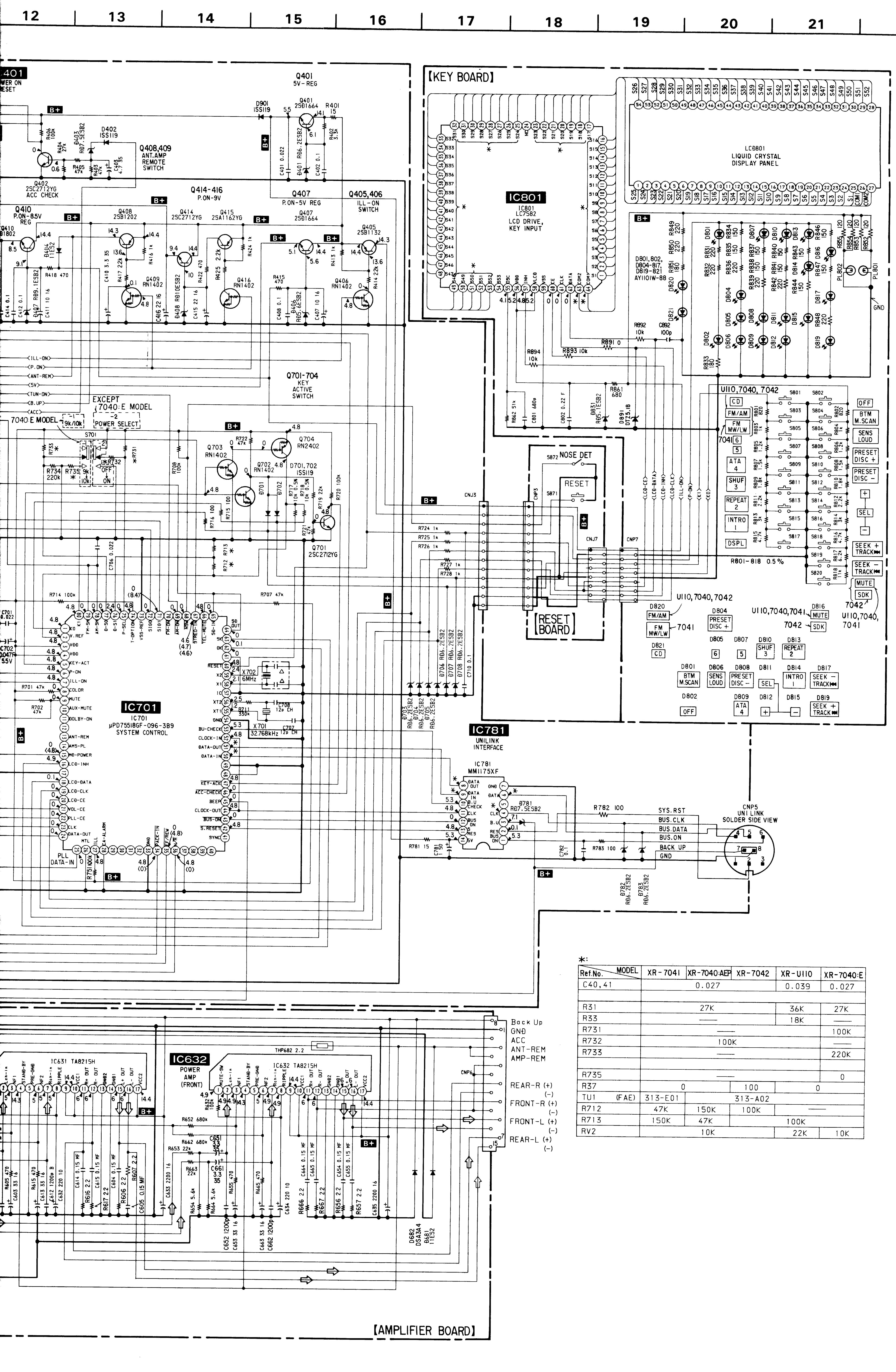

20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
CNP5
UNILINK
1 N.C
2 RESET
3 N.C
4 CLOCK
5 DATA
6 BUS ON
7 BACK UP
8 GND
CNP4
CNP1
ANT
IC801
X702
7042
1-646-956-
【RESET BOARD】
(COMPONENT SIDE)
CNP3
S871
RESET
S872
NOSE
DET
1-646-958-
【RESET BOARD】
(CONDUCTOR SIDE)
CNJ7
1-646-958-
【KEY BOARD】
(COMPONENT SIDE)
U110,7040,7042
7041
FM/AM
FM
MW/LW
CD
BTM
M.SCAN
OFF
SENS
LOUD
PRESET
DISC
ATA
SHUF
REPEAT
SEL
INTRO
SEEK
TRACK
MUTE
SDK
U110,7040,7041
7042
1-646-959-
【KEY BOARD】
(CONDUCTOR SIDE)
CNP7
DSPL
PL801
PL802
IC801
U110,7040
7041
LCD801
LIQUID CRYSTAL
DISPLAY PANEL
1-646-959-
HP901
PB HEAD
RED
YEL
BLK
S901
HEAD SELECT
FWD
REV
WHT
RED
BLK
【SWITCH BOARD】
S903
MUTE
TAPE
WHT
BRN
BLU
RED
M901
MOTOR
【MUTE SWITCH BOARD】
GRY
BRN
S904
MUTE
POWER
A
CNP6
YEL
BLK
RED
BLU
BLU/WHT
VIO
VIO/BLK
GRY
GRY/BLK
WHT
WHT/BLK
GRN
GRN/BLK
REAR-L(+)
REAR-L(−)
FRONT-L(+)
FRONT-L(−)
FRONT-R(+)
FRONT-R(−)
500μH
F901
12A
F902
1A
BACK UP
GND
ACC
ANT-REM
AMP-REM
REAR-R(+)
REAR-R(−)

5-5. SCHEMATIC DIAGRAM •Refer to page 35 for IC Block Diagrams.



1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
[MAIN BOARD]
CNP1 ANT
Q1 LOCAL/DX SELECT
Q1 RN1402
D1,2 ISS119
TU1 FAE313
IC1 TA2027F FM IF, MPX NOISE KILLER
STEREO SEPARATION
AUTO SCAN/STOP LEVEL
FM CENTER
Q51 2SC2412KLN-E LPF
Q52 2SC2412KLN-E
Q52 CHANNEL SWEEP
SDK
IC61 TDA1579-T ARI DETECT
D3,5 ISS119
D6 ISS119
D7 ISS119
SWITCH BOARD(1/2)
HP901 PB HEAD
S901 HEAD SELECT
S904 MUTE POWER
S903 MUTE TAPE
MUTE SWITCH BOARD
SWITCH BOARD(2/2)
M901 MOTOR
CNP2
Q441,442 MOTOR DRIVE
Q441 2SB1132
Q442 RN1402
IC301 EQ AMP
IC301 BA328-F
IC302 MODE SELECT
IC302 TC4052BFHB
IC111 BUFFER
IC111 RC4558DR-A
IC112 BUFFER
IC112 RC4558DR-A
IC311 LC7537AN ELECTRONIC VOLUME/MATRIX
IC113 LINE AMP
IC113 RC4558DR-A
IC213 LINE AMP
IC213 RC4558DR-A
IC211 BUFFER
IC211 RC4558DR-A
IC212 BUFFER
IC212 RC4558DR-A
D311 RD4.3ESB2
D312 RD4.3ESB2
D772 RD3.6ESB2
B+
CNP4
CNJ4

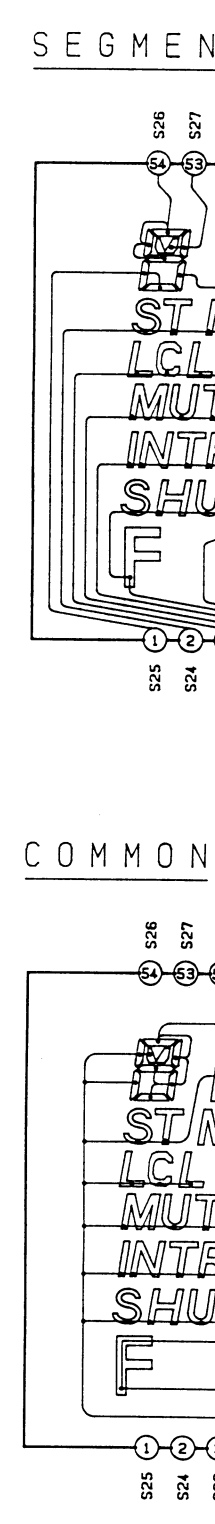

IC401
POWER ON RESET
IC401 RH5VA40AA
Q401 5V-REG
Q401 2SD1664
Q402 2SC2712YG ACC CHECK
Q408,409 ANT.AMP REMOTE SWITCH
Q411-413 FM/AM B+ SWITCH
Q410 P.ON-8.5V REG
Q414-416 P.ON-9V
Q407 P.ON-5V REG
Q405,406 ILL-ON SWITCH
[KEY BOARD]
IC801
IC801 LC7582 LCD DRIVE, KEY INPUT
IC1
IC1 TA2027F FM IF, MPX NOISE KILLER
STEREO SEPARATION
FM CENTER
IC302
MODE SELECT
IC302 TC4052BFHB
IC81
PLL
IC81 LC7216M
Q701-704 KEY ACTIVE SWITCH
EXCEPT 7040:E MODEL
7040:E MODEL
POWER SELECT
IC701
IC701 μPD75518GF-096-3B9 SYSTEM CONTROL
Q771 MUTE DRIVE
Q772 MUTE SWITCH
NOSE DET
RESET
[RESET BOARD]
IC781
UNILINK INTERFACE
IC781 MM1175XF
IC113
LINE AMP
IC213
LINE AMP
IC631
POWER AMP (REAR)
IC631 TA8215H
IC632
POWER AMP (FRONT)
IC632 TA8215H
Q601 DTC314TK
Q611 DTC314TK
MUTE
Q651 DTC314TK
Q661 DTC314TK
MUTE
CNJ601
-1, -2 UNILINK IN AUDIO
-3, -4 LINE OUT
Back Up
GND
ACC
ANT-REM
AMP-REM
REAR-R (+)
(-)
FRONT-R (+)
(-)
FRONT-L (+)
(-)
REAR-L (+)
(-)
[AMPLIFIER BOARD]
*:
Ref.No.
C40,41
R31
R33
R731
R732
R733
R735
R37
TU1
R712
R713
RV2
7
8
9
10
11
12
13
14
15
16
17
18


12
13
14
15
16
17
18
19
20
21
22
【KEY BOARD】
IC801
LC7582
LCD DRIVE, KEY INPUT
LC0801
LIQUID CRYSTAL DISPLAY PANEL
Q401
5V-REG
Q408,409
ANT.AMP REMOTE SWITCH
Q402
2SC2712YG
ACC CHECK
Q410
P.ON-8.5V REG
Q414-416
P.ON-9V
Q407
P.ON-5V REG
Q405,406
ILL-ON SWITCH
Q701-704
KEY ACTIVE SWITCH
EXCEPT 7040:E MODEL
7040:E MODEL
POWER SELECT
IC701
μPD7551BGF-096-3B9
SYSTEM CONTROL
IC781
UNILINK INTERFACE
MM1175XF
NOSE DET
RESET
【RESET BOARD】
CNP5
UNI LINK
SOLDER SIDE VIEW
SYS.RST
BUS.CLK
BUS.DATA
BUS.ON
BACK UP
GND
U110,7040,7042
CD
FM/AM
FM MW/LW
ATA
SHUF
REPEAT
INTRO
DSPL
OFF
BTM M.SCAN
SENS LOUD
PRESET DISC +
PRESET DISC -
SEL
SEEK + TRACK
SEEK - TRACK
MUTE
SDK
R801-818 0.5%
IC632
POWER AMP (FRONT)
IC631 TA8215H
IC632 TA8215H
Back Up
GND
ACC
ANT-REM
AMP-REM
REAR-R (+)
FRONT-R (+)
FRONT-L (+)
REAR-L (+)
【AMPLIFIER BOARD】

*:

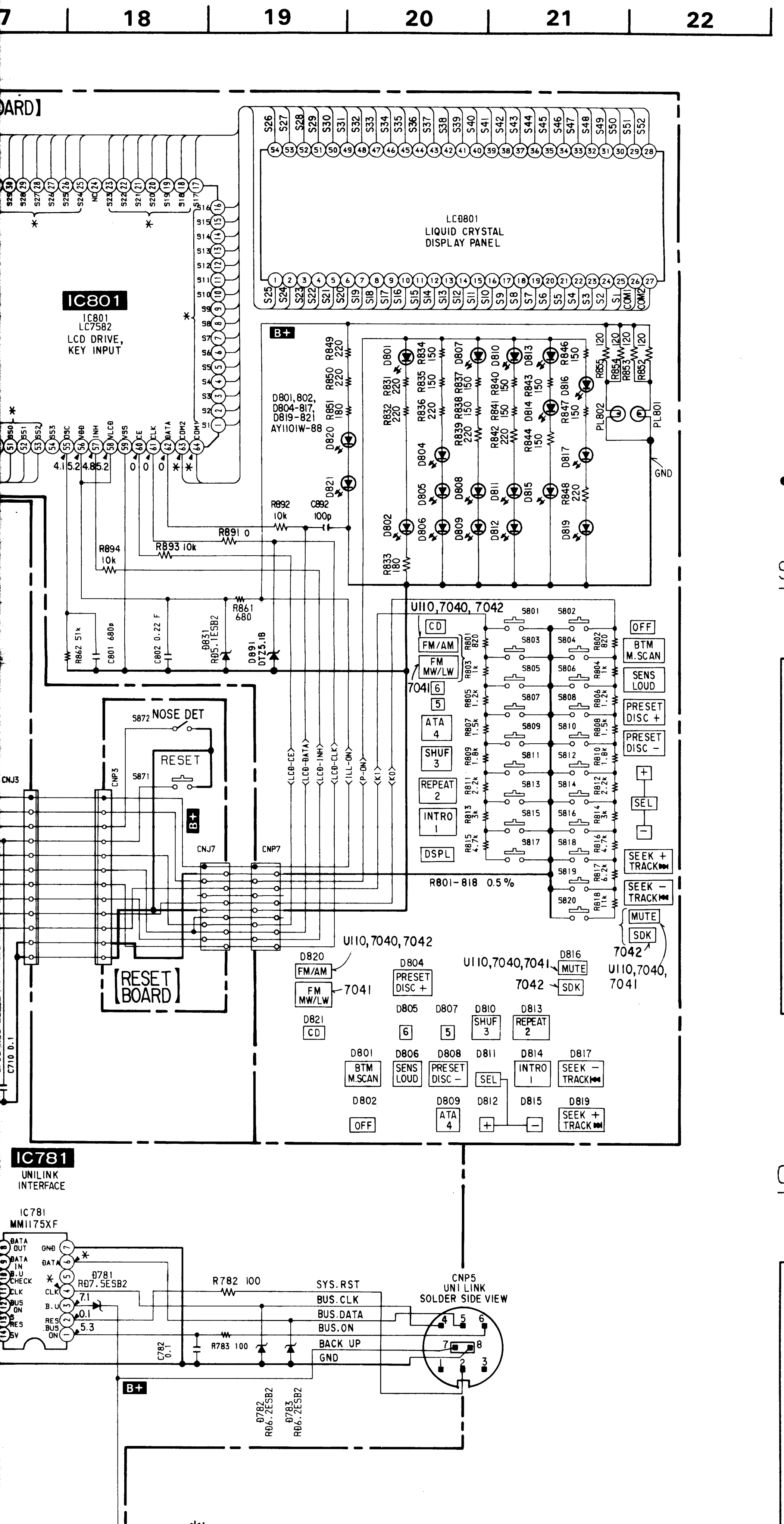
Ref.No. \ MODEL	XR-7041	XR-7040:AEP	XR-7042	XR-U110	XR-7040:E
C40,41	0.027			0.039	0.027
R31	27K			36K	27K
R33	——			18K	——
R731	——				100K
R732	100K				——
R733	——				220K
R735	——				0
R37	0		100	0	
TU1 (FAE)	313-E01	313-A02			
R712	47K	150K	100K	——	
R713	150K	47K	100K		
RV2	10K			22K	10K

● Liquid Crysta


SEGMEN
S26
S27
S25
S24
COMMON
ST
LCL
MUT
INT
SHU
F

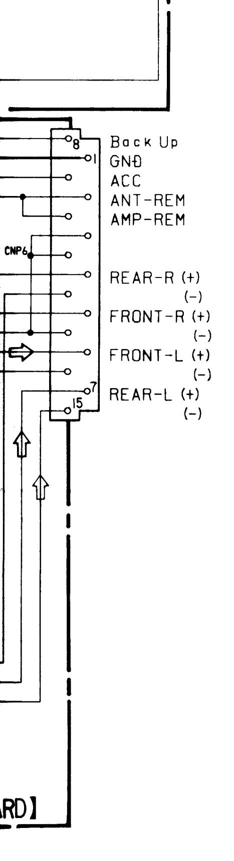
Note:

- All capacitors are in μF
50WV or less are not i
and tantalums.
- All resistors are in Ω a
specified.
- △ : internal compon
- ▭ : adjustment for r
- Power voltage is dc 14.4
supply from Back Up and
- Voltage is dc with respect
conditions.
no mark : FM
( ) : AM
〈 〉 : PLAY
＊ : Impossible meas
- Voltages are taken with a
Voltage variations may b
tion tolerances.
- Signal path.
⇨ : FM
- 7040 : XR-7040
7041 : XR-7041
7042 : XR-7042
U110 : XR-U110


17
18
19
20
21
22
BOARD]
IC801
IC801
LC7582
LCD DRIVE,
KEY INPUT
LCD801
LIQUID CRYSTAL
DISPLAY PANEL
B+
D801,802,
D804-817,
D819-821
AY1101W-88
PL801
PL802
GND
U110,7040,7042
S872 NOSE DET
S871
RESET
[RESET BOARD]
CNJ3
CNP3
CNJ7
CNP7
R801-818 0.5%
OFF
BTM M.SCAN
SENS LOUD
PRESET DISC +
PRESET DISC −
SEL
SEEK + TRACK
SEEK − TRACK
MUTE
SDK
CD
FM/AM
FM MW/LW
ATA 4
SHUF 3
REPEAT 2
INTRO 1
DSPL
IC781
UNILINK INTERFACE
IC781
MM1175XF
R782 100
R783 100
SYS.RST
BUS.CLK
BUS.DATA
BUS.ON
BACK UP
GND
CNP5
UNI LINK
SOLDER SIDE VIEW
B+

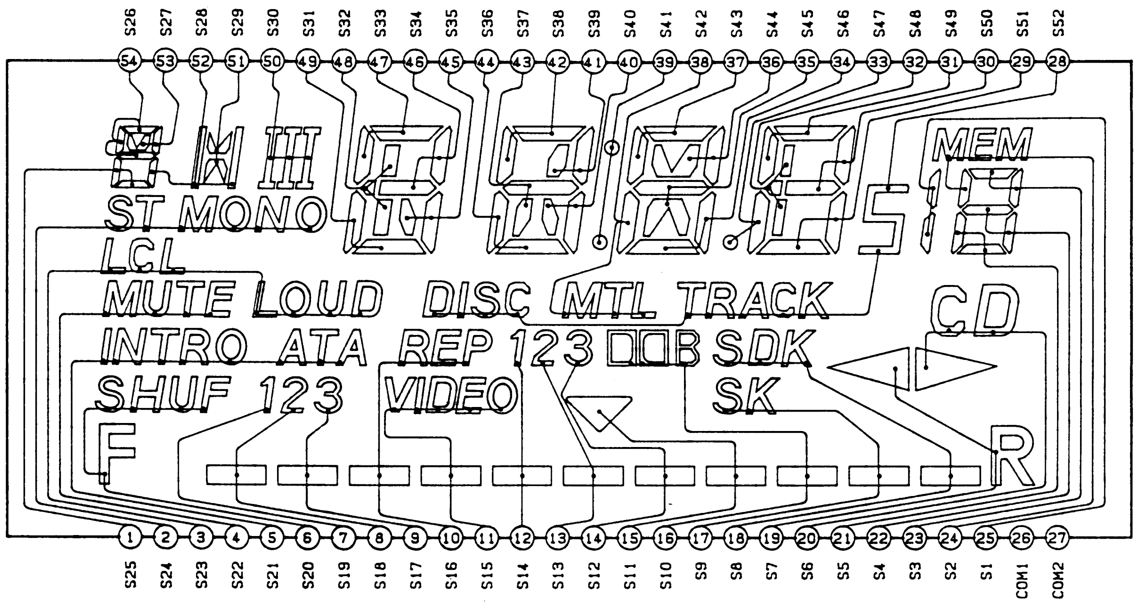
*:

Ref.No. \ MODEL	XR-7041	XR-7040:AEP	XR-7042	XR-U110	XR-7040:E
C40,41	0.027			0.039	0.027
R31	27K			36K	27K
R33	——			18K	——
R731	——				100K
R732	100K				——
R733	——				220K
R735	——				0
R37	0		100	0	
TU1 (FAE)	313-E01	313-A02			
R712	47K	150K	100K	——	
R713	150K	47K	100K		
RV2	10K			22K	10K

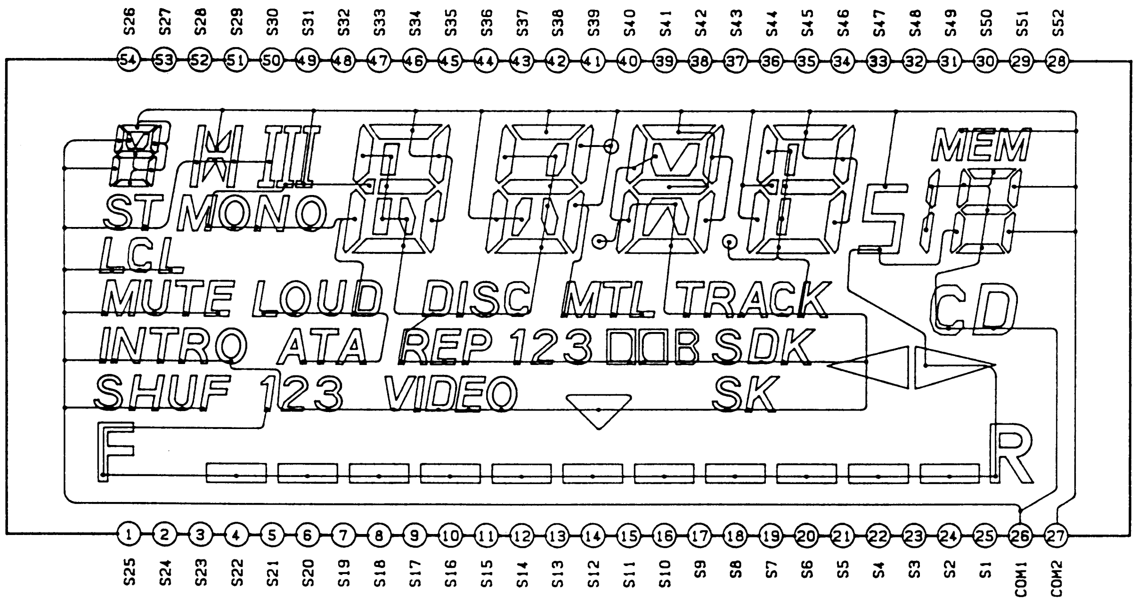

Back Up
GND
ACC
ANT-REM
AMP-REM
REAR-R (+)
(−)
FRONT-R (+)
(−)
FRONT-L (+)
(−)
REAR-L (+)
(−)
RD]

● Liquid Crystal Display Panel (LCD801)

SEGMENT


S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S52
MEM
ST MONO
LCL
MUTE LOUD DISC MTL TRACK
CD
INTRO ATA REP 123 DB SDK
SHUF 123 VIDEO
SK
F
R
S25 S24 S23 S22 S21 S20 S19 S18 S17 S16 S15 S14 S13 S12 S11 S10 S9 S8 S7 S6 S5 S4 S3 S2 S1 COM1 COM2

COMMON

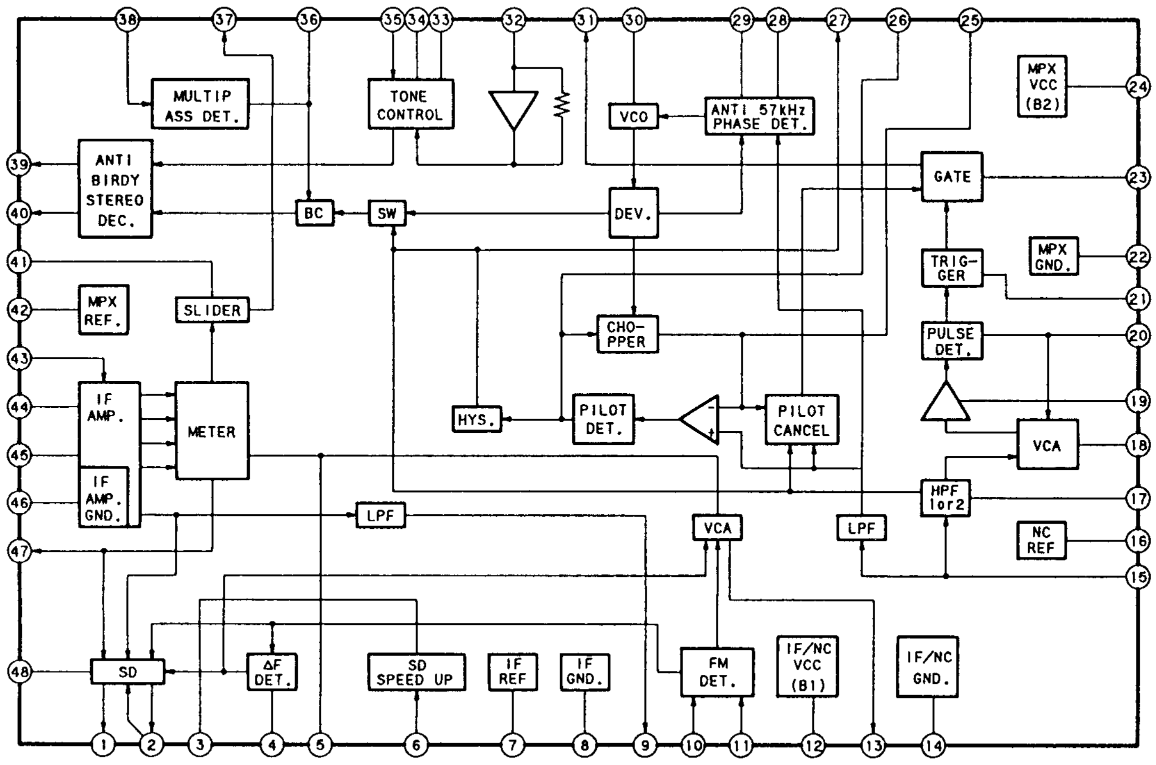

S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S52
MEM
ST MONO
LCL
MUTE LOUD DISC MTL TRACK
CD
INTRO ATA REP 123 DB SDK
SHUF 123 VIDEO
SK
F
R
S25 S24 S23 S22 S21 S20 S19 S18 S17 S16 S15 S14 S13 S12 S11 S10 S9 S8 S7 S6 S5 S4 S3 S2 S1 COM1 COM2

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from Back Up and ACC terminal.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
  < > : PLAY
  ＊ : Impossible measurement point
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- 7040 : XR-7040
  7041 : XR-7041
  7042 : XR-7042
  U110 : XR-U110

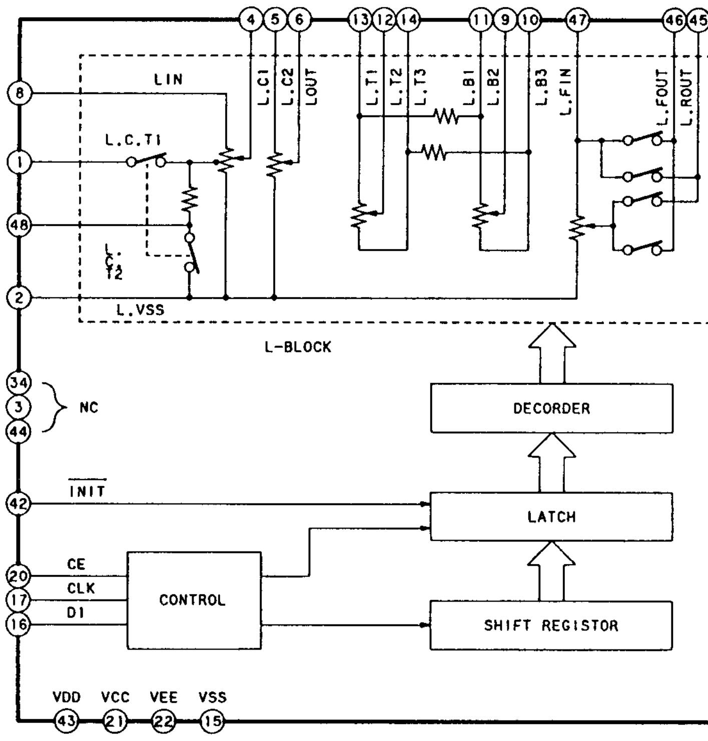
- **IC Block Diagrams**

IC1 TA2027F



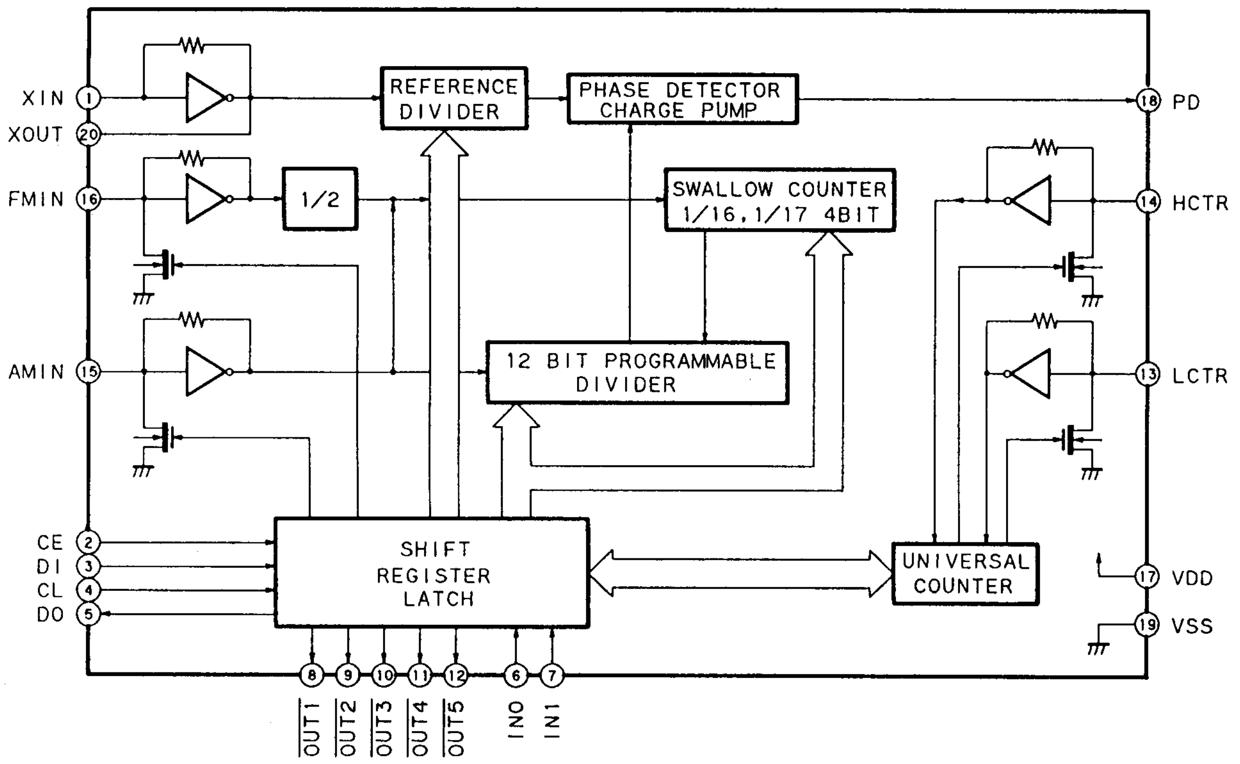
MULTIP ASS DET.
ANTI BIRDY STEREO DEC.
TONE CONTROL
VCO
ANTI 57kHz PHASE DET.
MPX VCC (B2)
BC
SW
DEV.
GATE
MPX GND.
TRIG-GER
MPX REF.
SLIDER
CHO-PPER
PULSE DET.
IF AMP.
METER
HYS.
PILOT DET.
PILOT CANCEL
VCA
IF AMP. GND.
LPF
VCA
LPF
HPF 1or2
NC REF
SD
ΔF DET.
SD SPEED UP
IF REF
IF GND.
FM DET.
IF/NC VCC (B1)
IF/NC GND.

IC311 LC7537AN



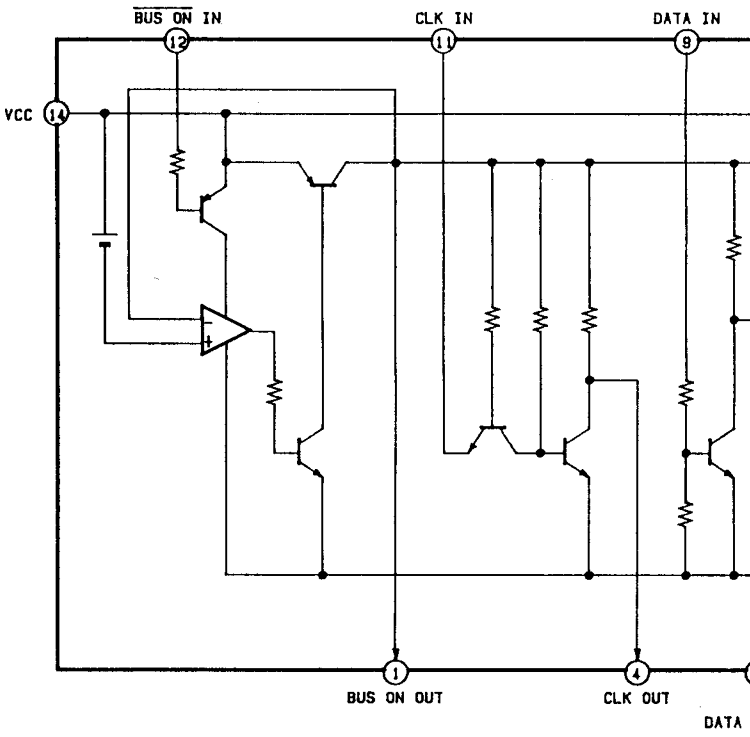
LIN
L.C1
L.C2
LOUT
L.T1
L.T2
L.T3
L.B1
L.B2
L.B3
L.FIN
L.FOUT
L.ROUT
L.C.T1
L.C.T2
L.VSS
L-BLOCK
NC
DECORDER
INIT
LATCH
CE
CLK
DI
CONTROL
SHIFT REGISTOR
VDD VCC VEE VSS

IC81 LC7216M



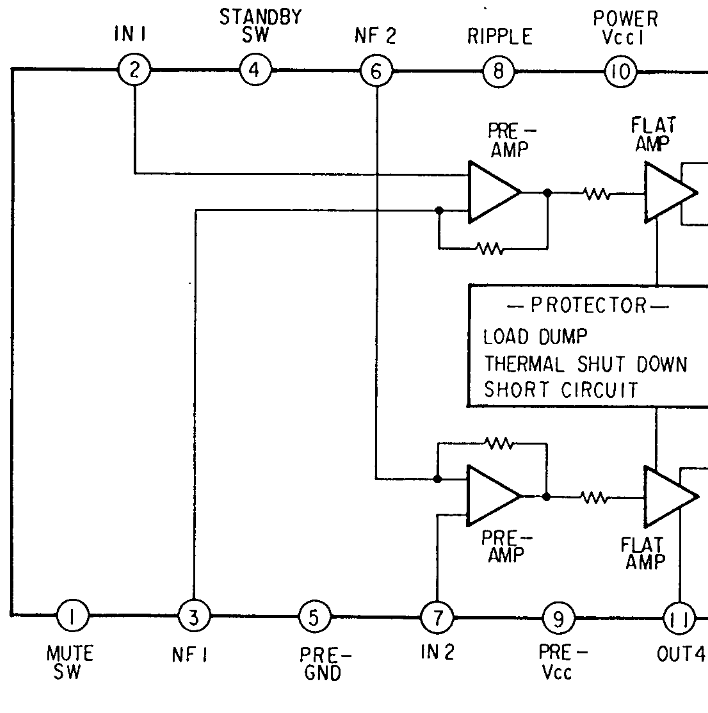
XIN
XOUT
FMIN
AMIN
CE
DI
CL
DO
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
PD
1/2
SWALLOW COUNTER 1/16, 1/17 4BIT
HCTR
12 BIT PROGRAMMABLE DIVIDER
LCTR
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
VDD
VSS
OUT1
OUT2
OUT3
OUT4
OUT5
IN0
IN1

IC781 MM1175XF



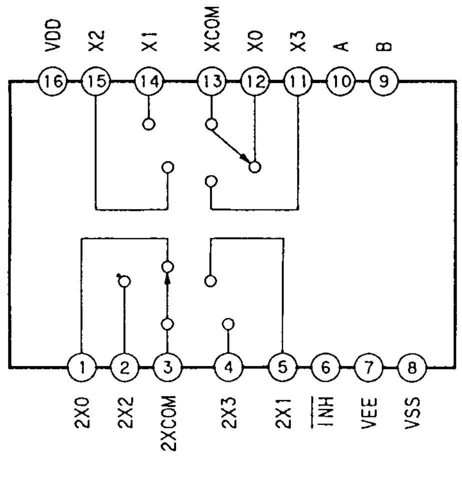
BUS ON IN
CLK IN
DATA IN
VCC
BUS ON OUT
CLK OUT
DATA

IC631, 632 TA8215H



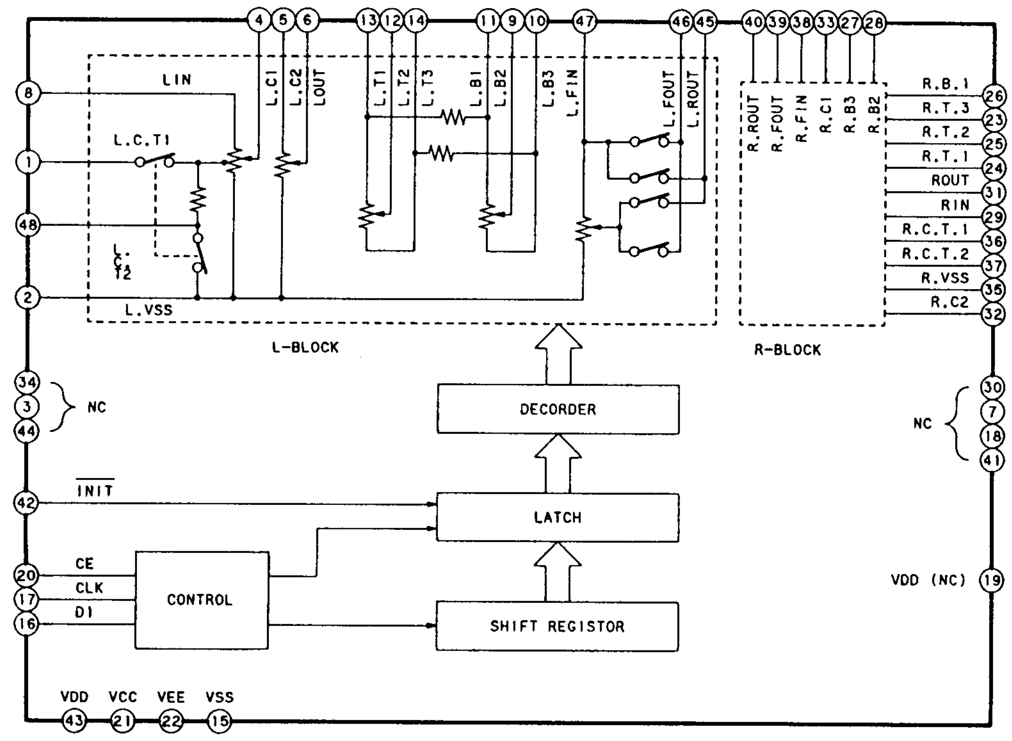
IN I
STANDBY SW
NF 2
RIPPLE
POWER Vcc I
PRE-AMP
FLAT AMP
— PROTECTOR —
LOAD DUMP
THERMAL SHUT DOWN
SHORT CIRCUIT
PRE-AMP
FLAT AMP
MUTE SW
NF I
PRE-GND
IN 2
PRE-Vcc
OUT4

IC302 TC4052BFHB



VDD
X2
X1
XCOM
X0
X3
A
B
2X0
2X2
2XCOM
2X3
2X1
INH
VEE
VSS

IC311 LC7537AN


LIN
L.C.T1
L.C.T2
L.VSS
L.C1
L.C2
LOUT
L.T1
L.T2
L.T3
L.B1
L.B2
L.B3
L.FIN
L.FOUT
L.ROUT
L-BLOCK
R.ROUT
R.FOUT
R.FIN
R.C1
R.B3
R.B2
R.B.1
R.T.3
R.T.2
R.T.1
ROUT
RIN
R.C.T.1
R.C.T.2
R.VSS
R.C2
R-BLOCK
NC
NC
DECORDER
LATCH
INIT
CE
CLK
DI
CONTROL
SHIFT REGISTOR
VDD (NC)
VDD
VCC
VEE
VSS
4
5
6
13
12
14
11
9
10
47
46
45
40
39
38
33
27
28
8
1
48
2
26
23
25
24
31
29
36
37
35
32
34
3
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7
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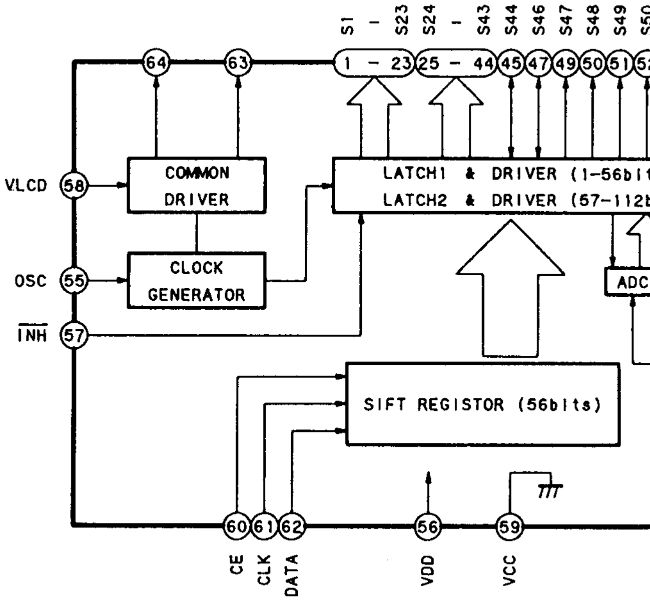
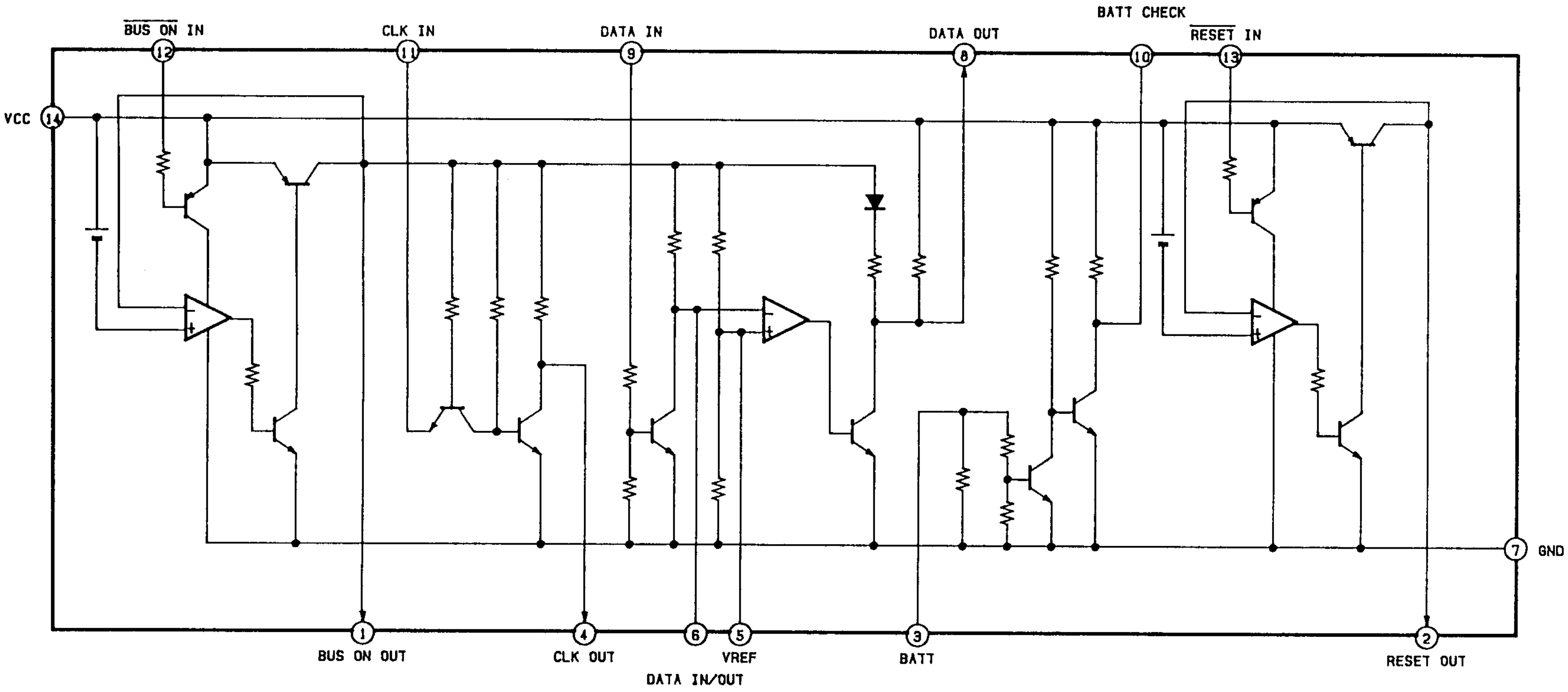
41
42
20
17
16
19
43
21
22
15

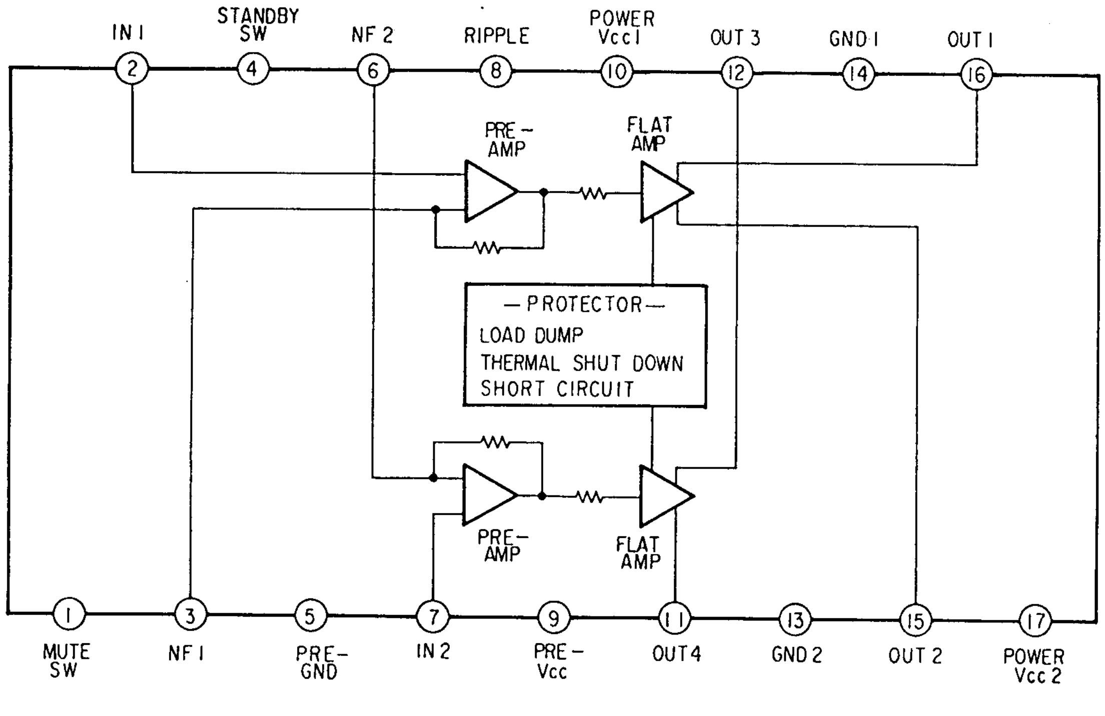
IC801 LC7582


S1 - S23
S24 - S43
S44
S46
S47
S48
S49
64
63
1 - 23
25 - 44
45
47
49
50
51
VLCD
58
OSC
55
INH
57
COMMON DRIVER
CLOCK GENERATOR
LATCH1 & DRIVER (1-56bi
LATCH2 & DRIVER (57-112b
ADC
SIFT REGISTOR (56bits)
60
61
62
56
59
CE
CLK
DATA
VDD
VCC

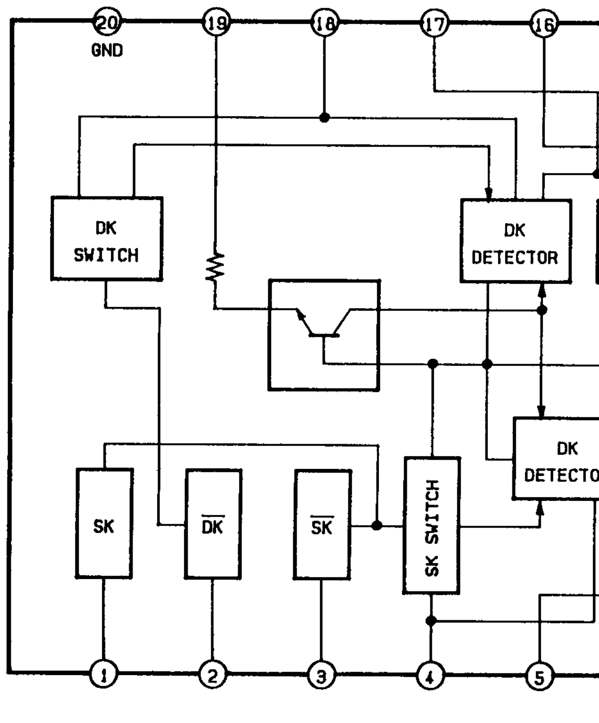
IC781 MM1175XF

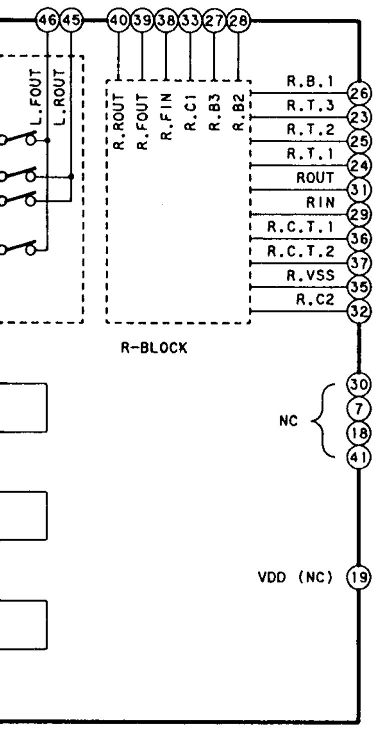

BUS ON IN
CLK IN
DATA IN
DATA OUT
BATT CHECK
RESET IN
12
11
9
8
10
13
VCC
14
7
GND
1
BUS ON OUT
4
CLK OUT
6
5
VREF
DATA IN/OUT
3
BATT
2
RESET OUT

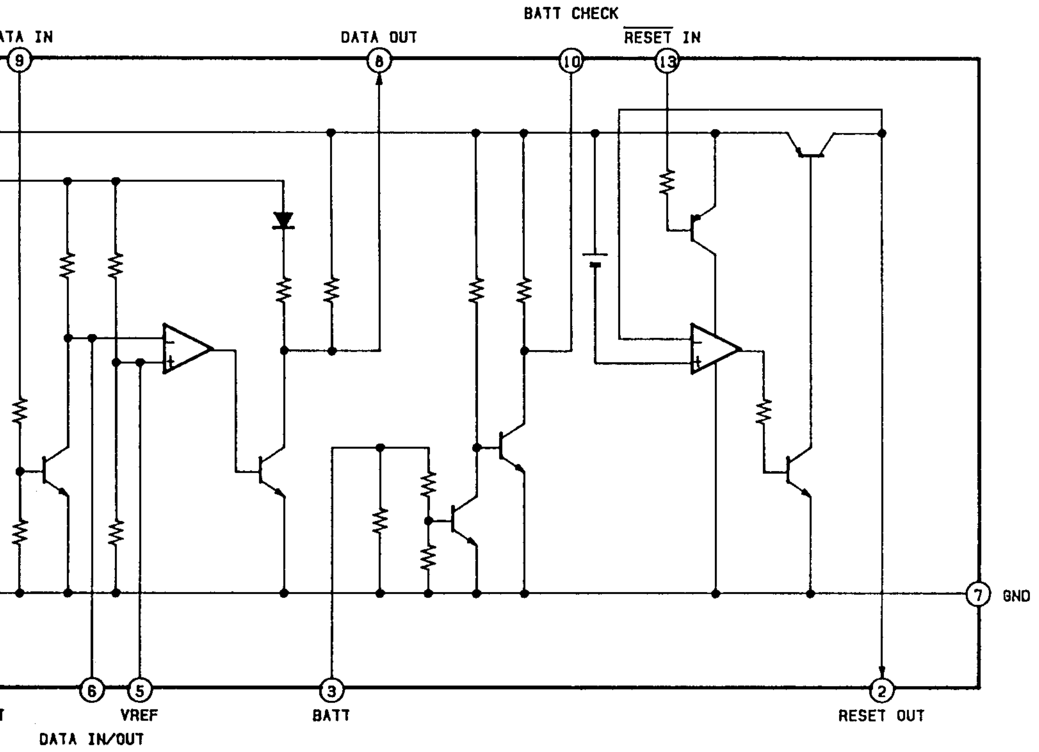
IC631, 632 TA8215H

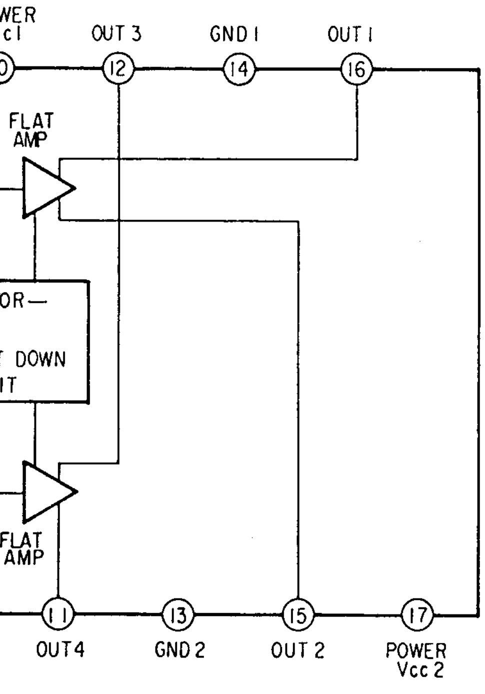

IN I
STANDBY SW
NF 2
RIPPLE
POWER Vcc I
OUT 3
GND I
OUT I
2
4
6
8
10
12
14
16
PRE-AMP
FLAT AMP
– PROTECTOR –
LOAD DUMP
THERMAL SHUT DOWN
SHORT CIRCUIT
PRE-AMP
FLAT AMP
1
3
5
7
9
11
13
15
17
MUTE SW
NF I
PRE-GND
IN 2
PRE-Vcc
OUT4
GND 2
OUT 2
POWER Vcc 2

IC61 TDA1579T (XR-7042 only)

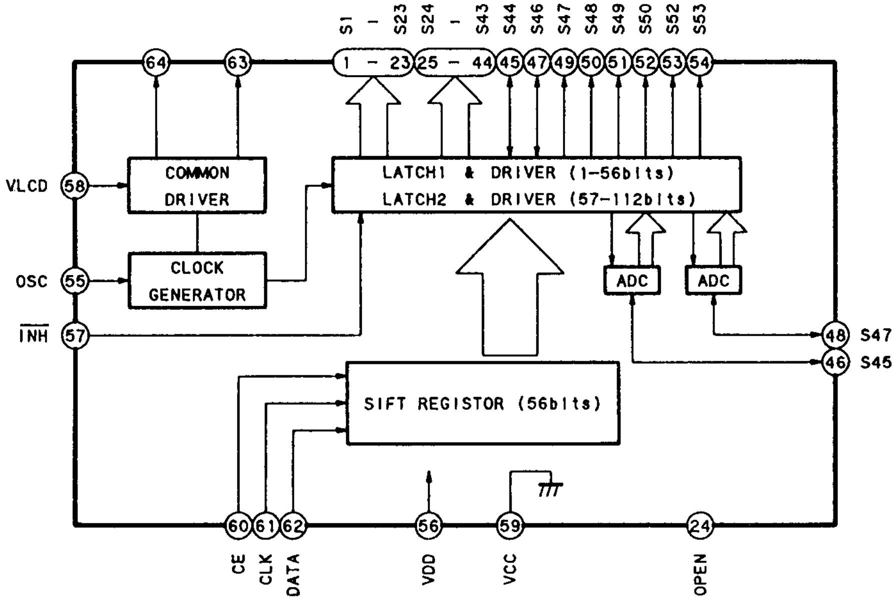

20
GND
19
18
17
16
DK SWITCH
DK DETECTOR
DK DETECTO
SK
DK
SK
SK SWITCH
1
2
3
4
5


L.FOUT
L.ROUT
R.ROUT
R.FOUT
R.FIN
R.C1
R.B3
R.B2
R.B.1
R.T.3
R.T.2
R.T.1
ROUT
RIN
R.C.T.1
R.C.T.2
R.VSS
R.C2
R-BLOCK
NC
VDD (NC)
46 45 40 39 38 33 27 28 26 23 25 24 31 29 36 37 35 32 30 7 18 41 19

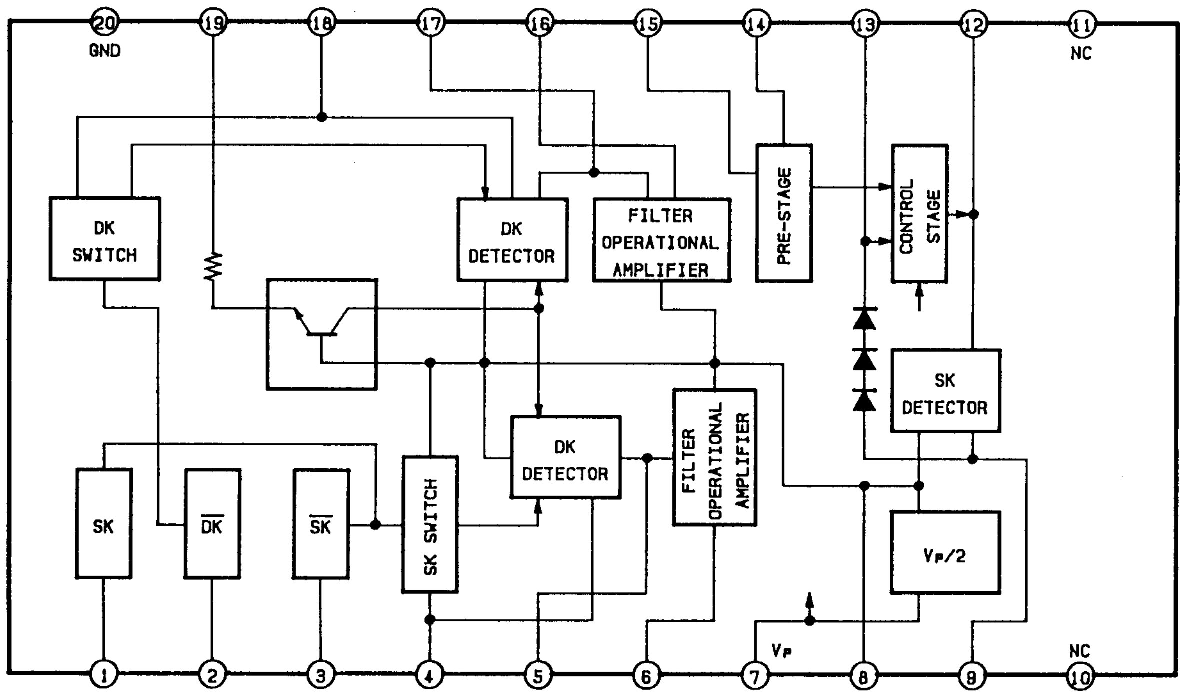

ATA IN
DATA OUT
BATT CHECK
RESET IN
9
8
10
13
7
GND
6
5
3
2
VREF
BATT
RESET OUT
DATA IN/OUT


WER
cl
OUT 3
GND 1
OUT 1
12
14
16
FLAT
AMP
OR—
T DOWN
IT
FLAT
AMP
11
13
15
17
OUT4
GND 2
OUT 2
POWER
Vcc 2

IC801 LC7582


S1 – S23 S24 – S43 S44 S46 S47 S48 S49 S50 S52 S53
64
63
1 – 23
25 – 44
45 47 49 50 51 52 53 54
VLCD 58
OSC 55
INH 57
COMMON
DRIVER
CLOCK
GENERATOR
LATCH1 & DRIVER (1–56bits)
LATCH2 & DRIVER (57–112bits)
ADC
ADC
48 S47
46 S45
SIFT REGISTOR (56bits)
60 61 62
56
59
24
CE
CLK
DATA
VDD
VCC
OPEN

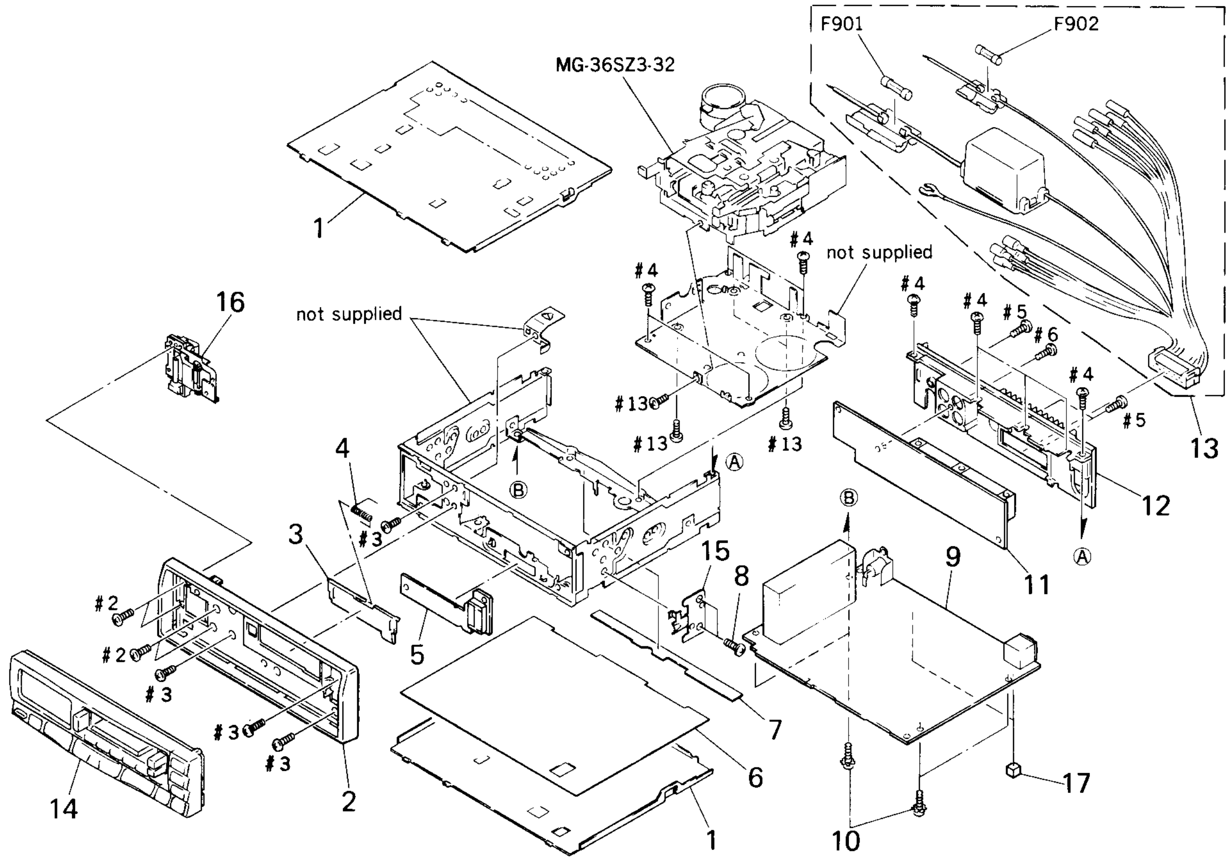
IC61 TDA1579T (XR-7042 only)


20
GND
19
18
17
16
15
14
13
12
11
NC
DK
SWITCH
DK
DETECTOR
FILTER
OPERATIONAL
AMPLIFIER
PRE-STAGE
CONTROL
STAGE
SK
DETECTOR
DK
DETECTOR
FILTER
OPERATIONAL
AMPLIFIER
SK
DK
SK
SK SWITCH
VP/2
VP
NC
1
2
3
4
5
6
7
8
9
10

SECTION 6
EXPLODED VIEWS

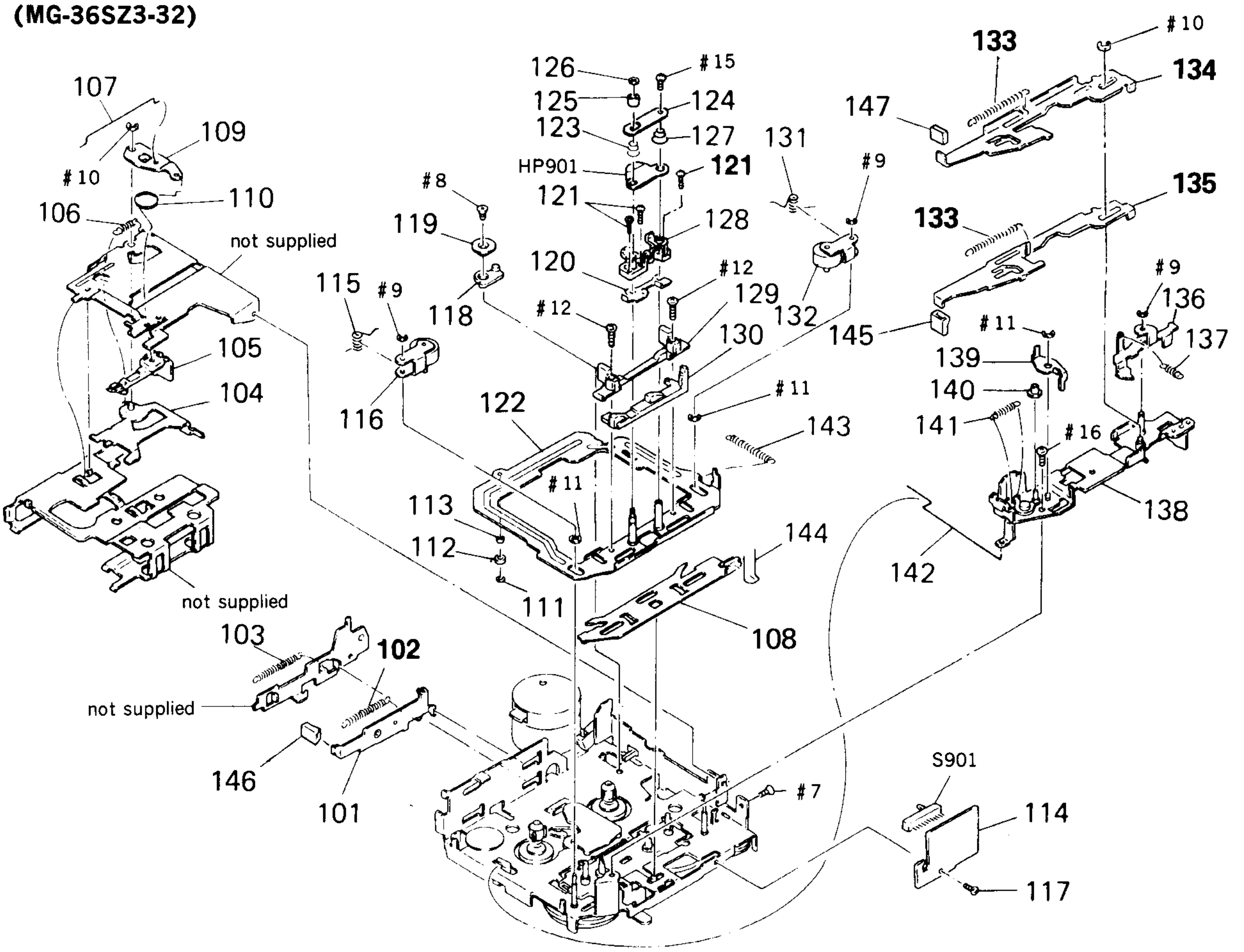
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.
- 7040 : XR-7040
  7041 : XR-7041
  7042 : XR-7042
  U110 : XR-U110

6-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 1	3-377-591-01	COVER	
2	3-384-659-01	PANEL, SUB	
3	3-378-541-51	DOOR, CASSETTE (7041)	
3	3-378-541-61	DOOR, CASSETTE (U110)	
3	3-378-541-71	DOOR, CASSETTE (7042)	
3	3-378-541-81	DOOR, CASSETTE (7040)	
4	3-377-892-01	SPRING (C DOOR), TORSION	
* 5	1-646-958-11	RESET BOARD	
* 6	3-377-593-21	INSULATOR	
7	3-379-684-01	INSULATOR (CHASSIS)	
8	3-329-814-01	SCREW (M4X6), SPECIAL PAN (+)	
* 9	A-3295-349-A	MAIN BOARD, COMPLETE (7041)	
* 9	A-3295-350-A	MAIN BOARD, COMPLETE (U110)	
* 9	A-3295-356-A	MAIN BOARD, COMPLETE (7040:AEP)	
* 9	A-3295-357-A	MAIN BOARD, COMPLETE (7040:E)	
* 9	A-3295-358-A	MAIN BOARD, COMPLETE (7042)	
10	3-376-464-11	SCREW(+PTT 2.6X6), GROUND POINT	
* 11	A-3295-348-A	AMPLIFIER BOARD, COMPLETE	
* 12	3-385-463-01	HEAT SINK	
13	1-696-375-31	CORD (WITH CONNECTOR) (7040:E, 7041)	
13	1-696-375-41	CORD (WITH CONNECTOR) (U110)	
13	1-696-375-51	CORD (WITH CONNECTOR) (7040:AEP, 7042)	
14	A-3252-621-A	PANEL ASSY, FRONT (7041)	
14	A-3252-622-A	PANEL ASSY, FRONT (U110, 7040)	
14	A-3252-623-A	PANEL ASSY, FRONT (7042)	
* 15	3-387-688-01	PLATE (R), LOCK	
16	X-3365-507-2	LOCK ASSY	
17	9-911-841-XX	CUSHION, CASSETTE LID (U110, 7040:E, 7041, 7042)	
F901	1-532-678-11	FUSE, GLASS TUBE (12A)	
F902	1-532-360-XX	FUSE, GLASS TUBE (1A) (30mm) (U110)	
F902	1-532-452-XX	FUSE, GLASS TUBE (1A) (22mm) (7040, 7041, 7042)	

6-3. MECHANISM SECTION (1)
(MG-36SZ3-32)


107
109
#10
110
106
not supplied
105
104
not supplied
103
102
not supplied
146
101
115
#9
116
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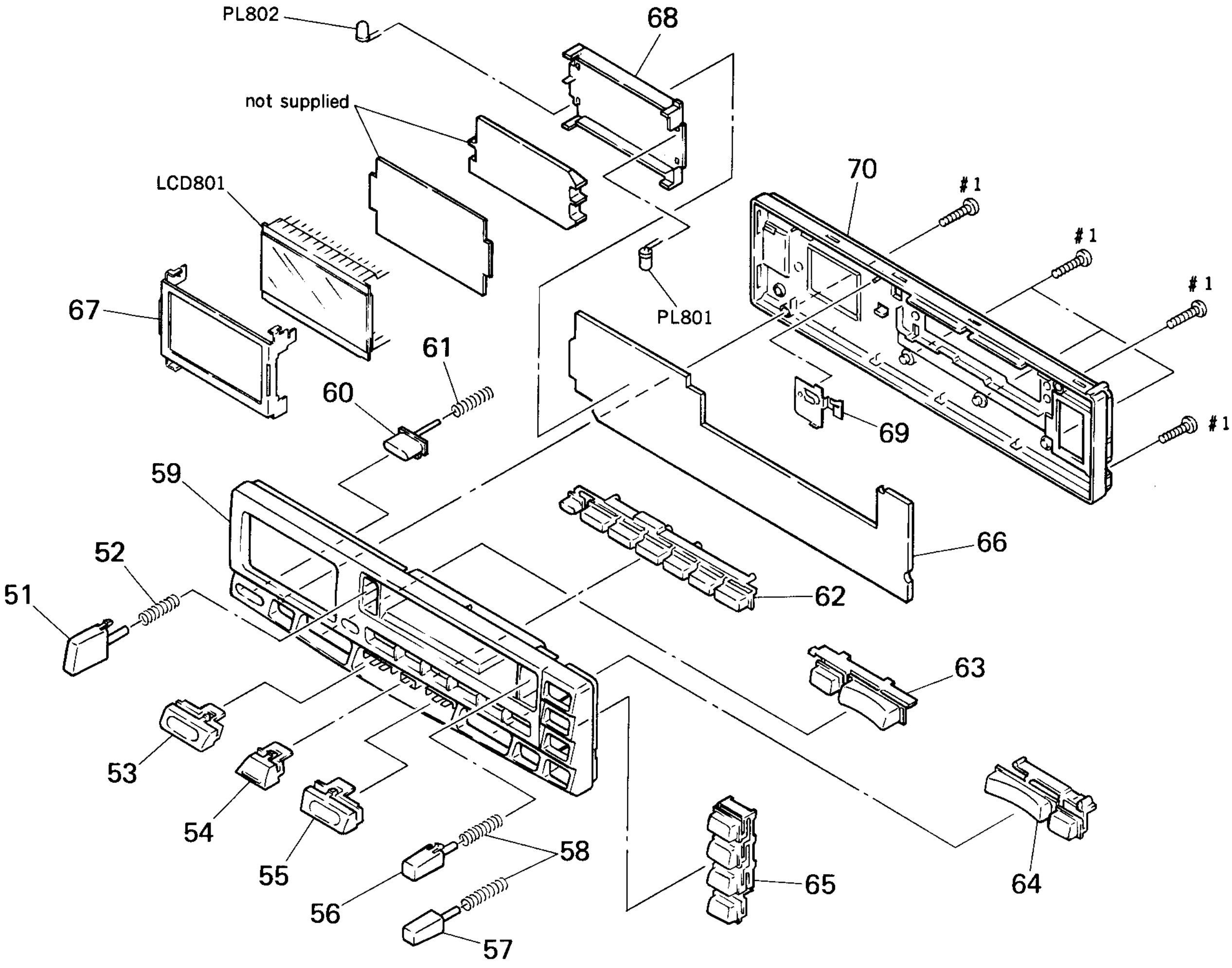
#8
118
126
#15
125
124
123
127
HP901
121
121
128
120
#12
129
#12
130
122
#11
113
112
111
131
#9
132
#11
143
144
108
147
133
#10
134
135
133
145
#9
136
137
#11
139
140
141
#16
138
142
S901
114
117
#7

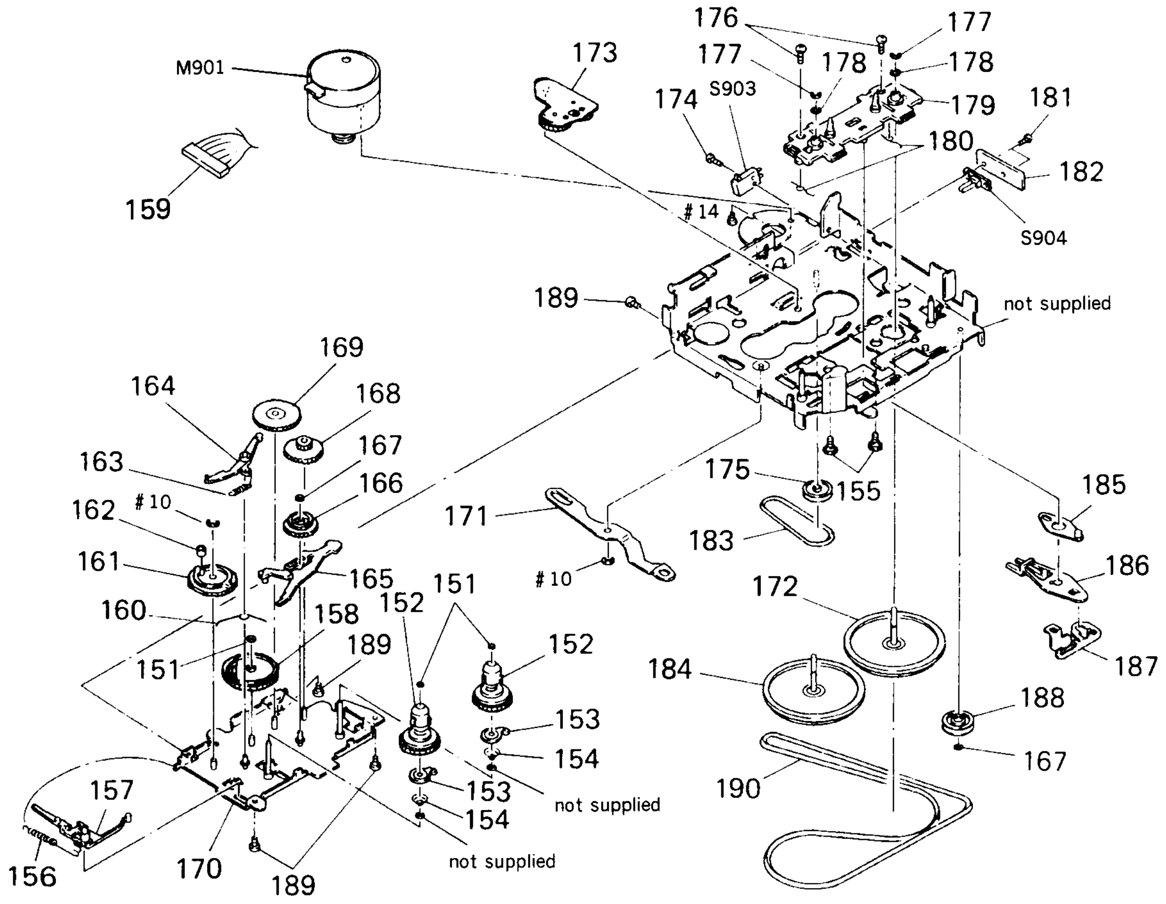
Ref. No.	Part No.	Description	Remark
* 101	3-379-144-01	LEVER (S), EJECT	
102	3-392-950-01	SPRING	
103	3-392-951-01	SPRING	
* 104	3-392-921-01	LOCK ASSY, EJECT CAM	
105	3-392-972-01	FUKER, TAPE	
106	3-392-953-01	SPRING	
107	3-392-969-01	LINK, RETURN	
* 108	3-392-919-01	ARM ASSY, F.R SELECTION	
* 109	3-392-932-01	PLATE, CENTER	
110	3-392-961-01	SPRING (B)	
111	3-570-615-00	POLY-WASHER (DIA.1.2)	
112	3-392-945-01	ROLLER (A), H.P	
113	3-392-942-01	ROLLER (B), H.P	
114	3-392-970-01	CHASSIS, SWITCH	
115	3-392-958-01	SPRING (R)	
116	3-375-378-01	ARM (R) ASSY, PINCH	
* 117	4-908-792-11	SCREW (B2X3), TAPPING, P1	
118	3-372-244-01	ARM (N), MUTE	
* 119	3-397-427-01	COLLAR, MUTE ARM	
120	3-377-908-01	SHIM (X), ADJUSTOR	
121	3-375-379-01	SCREW, AZIMUTH	
* 122	3-392-975-02	PLATE ASSY (S), HEAD	
123	3-392-956-01	SPRING (A)	
* 124	3-392-930-01	RETAINER, SPRING	
125	3-392-943-01	ROLLER, FF	
126	3-676-387-00	POLY-SLIDER (DIA.1.6)	
127	3-392-955-01	SPRING (A)	
* 128	3-379-142-01	ARM (B), ADJUSTOR	
129	3-392-984-02	GUIDE, TAPE	
130	3-377-909-01	LINK (X), ADJUSTOR	
131	3-392-957-01	SPRING (F)	
132	3-375-377-01	ARM (F) ASSY, PINCH	
133	3-392-948-01	SPRING	
* 134	3-379-145-01	LEVER (S), FF	
* 135	3-379-146-01	LEVER (S), REW	
* 136	3-392-935-01	ARM, LOCK	
137	3-392-917-01	SPRING	
* 138	3-372-242-01	BRACKET ASSY (D), LEVER	
* 139	3-392-933-01	LEVER (B), CHANGE	
140	3-392-994-01	ROLLER, PROGRAM	
141	3-392-954-01	SPRING	
142	3-372-243-01	LINK (B), SELECTOR	
143	3-392-952-01	SPRING	
144	3-392-962-01	SPRING	
* 145	3-379-139-01	BUTTON, REW	
* 146	3-379-140-01	BUTTON, EJECT	
* 147	3-379-141-01	BUTTON, FF	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
S901	1-692-036-11	SWITCH, SLIDE (HEAD SELECT)	

6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-3366-086-1	BUTTON (EJECT) ASSY	
52	3-375-371-01	SPRING (EJECT)	
53	3-384-649-01	BUTTON (-)	
54	3-384-650-01	BUTTON (SEL)	
55	3-384-648-01	BUTTON (+)	
56	3-384-653-01	BUTTON (FF)	
57	3-384-654-01	BUTTON (REW)	
58	3-375-372-01	SPRING (F/R)	
59	3-384-641-11	PANEL, FRONT (U110, 7040)	
59	3-384-641-21	PANEL, FRONT (7041)	
59	3-384-641-31	PANEL, FRONT (7042)	
60	3-384-652-01	BUTTON (RELEASE)	
61	3-375-373-01	SPRING (RELEASE)	
62	3-384-651-01	BUTTON (DSPL, 1-6)	
63	3-385-461-01	BUTTON (MUTE, SEEK TRACK) (U110, 7040, 7041)	
63	3-385-461-11	BUTTON (SDK, SEEK TRACK) (7042)	
64	3-385-462-01	BUTTON (PRESET DISC, SENS LOUD)	
65	3-385-460-01	BUTTON (FM/AM, CD, BTM M. SCAN, OFF) (U110, 7040, 7042)	
65	3-385-460-11	BUTTON (FM MW/LW, CD, BTM M. SCAN, OFF) (7041)	
* 66	A-3295-361-A	KEY BOARD, COMPLETE	
* 67	3-387-815-01	PLATE (LCD), GROUND	
* 68	3-357-087-01	HOLDER (LCD)	
69	3-384-665-01	PLATE (F-S), GROUND	
70	3-384-643-01	PANEL, FRONT BACK	
LCD801	1-810-020-11	DISPLAY PANEL, LIQUID CRYSTAL	
PL801	1-517-156-11	LAMP, PILOT	
PL802	1-517-156-11	LAMP, PILOT	

6-4. MECHANISM SECTION (2)
(MG-36SZ3-32)


M901
159
173
176
177
177
178
178
174
S903
179
180
181
182
S904
#14
189
not supplied
169
164
168
163
167
166
162
#10
171
175
155
185
161
183
165
151
#10
186
160
158
152
172
189
152
151
184
187
188
153
154
167
157
153
not supplied
190
154
156
170
189
not supplied

Ref. No.	Part No.	Description	Remark
151	3-676-387-00	POLY-SLIDER (DIA. 1. 6)	
152	3-376-196-01	SPINDLE ASSY (S), REEL	
153	3-375-380-01	CAM ASSY, DETECTION	
154	3-370-619-01	SPRING, BACK TENSION	
155	3-392-918-01	SCREW, EJECT HOOK	
156	3-392-959-01	SPRING	
157	3-392-985-02	RATCHET	
158	3-392-990-01	GEAR, DETECTION	
159	3-387-912-01	CONNECTOR ASSY, 11P	
160	3-392-960-01	SPRING	
161	3-392-987-01	GEAR, SELECTOR	
162	3-392-944-01	COLLAR (SELECTOR GEAR)	
163	3-375-131-01	SPRING, GEAR LOCK ARM	
164	3-392-989-02	ARM, GEAR LOCK	
165	3-392-986-01	ARM, SENSOR	
166	3-392-915-01	GEAR, IDLE	
167	3-570-615-00	POLY-WASHER (DIA. 1. 2)	
168	3-392-936-01	GEAR (A)	
169	3-392-937-01	GEAR (B)	
* 170	3-392-976-01	BASE ASSY, REEL	
* 171	3-392-979-01	LEVER, REVERSE	
172	3-392-926-02	FLYWHEEL ASSY (BF)	
173	3-392-916-01	ARM ASSY, TU GEAR	
174	3-318-203-11	SCREW (B1. 7X6), TAPPING	
175	3-392-938-01	GEAR, PULLY	
176	3-318-204-81	SCREW (M1. 7X3), TAPPING	
177	3-590-768-00	RING (A), E	
178	3-701-437-11	POLY-SLIDER (A)	
* 179	3-375-381-01	BRACKET ASSY (X), CM	
180	3-392-963-01	SPRING (R)	
181	3-318-204-91	SCREW (M1. 7X4), TAPPING	
182	3-375-376-01	MUTE (PWB)	
183	3-375-375-02	BELT (C), SUB	
184	3-392-995-02	FLYWHEEL ASSY (BR)	
* 185	3-392-925-01	ARM (A) ASSY, F. R	
* 186	3-392-939-01	ARM, FF	
* 187	3-392-934-01	ARM (B), F. R	
188	3-392-941-01	PULLEY (A), IDLE	
* 189	4-908-792-11	SCREW (B2X3), TAPPING, P1	
190	3-392-967-01	BELT, MAIN	
M901	X-3364-496-1	MOTOR ASSY	
S903	1-692-065-11	SWITCH, LEAF (MUTE/TAPE)	
S904	1-554-790-21	SWITCH, POWER (MUTE/POWER)	

AMPLIFIER

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

- 7040 : XR-7040
  7041 : XR-7041
  7042 : XR-7042
  U110 : XR-U110

Ref. No.	Part No.	Description			Remark
*	A-3295-348-A	AMPLIFIER BOARD, COMPLETE *************************			
		< CAPACITOR >			
C601	1-126-162-11	ELECT	3.3uF	20%	50V
C602	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C603	1-124-034-51	ELECT	33uF	20%	16V
C604	1-136-167-00	FILM	0.15uF	5%	50V
C605	1-136-167-00	FILM	0.15uF	5%	50V
C611	1-126-162-11	ELECT	3.3uF	20%	50V
C612	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C613	1-124-034-51	ELECT	33uF	20%	16V
C614	1-136-167-00	FILM	0.15uF	5%	50V
C615	1-136-167-00	FILM	0.15uF	5%	50V
C631	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C632	1-126-176-11	ELECT	220uF	20%	10V
C633	1-124-343-00	ELECT	2200uF	20%	16V
C634	1-126-176-11	ELECT	220uF	20%	10V
C635	1-124-343-00	ELECT	2200uF	20%	16V
C651	1-126-162-11	ELECT	3.3uF	20%	50V
C652	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C653	1-124-034-51	ELECT	33uF	20%	16V
C654	1-136-167-00	FILM	0.15uF	5%	50V
C655	1-136-167-00	FILM	0.15uF	5%	50V
C661	1-126-162-11	ELECT	3.3uF	20%	50V
C662	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C663	1-124-034-51	ELECT	33uF	20%	16V
C664	1-136-167-00	FILM	0.15uF	5%	50V
C665	1-136-167-00	FILM	0.15uF	5%	50V
		< CONNECTOR >			
CNJ4	1-580-279-11	SOCKET, CONNECTOR 16P			
		< JACK >			
CNJ601	1-691-683-51	JACK, PIN 4P (UNILINK IN AUDIO, LINE OUT)			
		< CONNECTOR >			
CNP6	1-695-244-21	PLUG, CINNECTOR 15P			

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D681	8-719-200-82	DIODE	11ES2		
D682	8-719-945-59	DIODE	DSA3A4		
		< IC >			
IC631	8-759-243-27	IC	TA8215H		
IC632	8-759-243-27	IC	TA8215H		
		< TRANSISTOR >			
Q601	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q611	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q651	8-729-920-21	TRANSISTOR	DTC314TKH04		
Q661	8-729-920-21	TRANSISTOR	DTC314TKH04		
		< RESISTOR >			
R601	1-216-081-00	METAL CHIP	22K	5%	1/10W
R602	1-216-117-00	METAL CHIP	680K	5%	1/10W
R603	1-216-081-00	METAL CHIP	22K	5%	1/10W
R604	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R605	1-216-041-00	METAL CHIP	470	5%	1/10W
R606	1-216-134-00	METAL GLAZE	2.2	5%	1/8W
R607	1-216-134-00	METAL GLAZE	2.2	5%	1/8W
R611	1-216-081-00	METAL CHIP	22K	5%	1/10W
R612	1-216-117-00	METAL CHIP	680K	5%	1/10W
R613	1-216-081-00	METAL CHIP	22K	5%	1/10W
R614	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R615	1-216-041-00	METAL CHIP	470	5%	1/10W
R616	1-216-134-00	METAL GLAZE	2.2	5%	1/8W
R617	1-216-134-00	METAL GLAZE	2.2	5%	1/8W
R631	1-216-097-00	METAL CHIP	100K	5%	1/10W
R632	1-216-097-00	METAL CHIP	100K	5%	1/10W
R641	1-216-081-00	METAL CHIP	22K	5%	1/10W
R651	1-216-081-00	METAL CHIP	22K	5%	1/10W
R652	1-216-117-00	METAL CHIP	680K	5%	1/10W
R653	1-216-081-00	METAL CHIP	22K	5%	1/10W
R654	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R655	1-216-041-00	METAL CHIP	470	5%	1/10W
R656	1-216-134-00	METAL GLAZE	2.2	5%	1/8W
R657	1-216-134-00	METAL GLAZE	2.2	5%	1/8W

KEY **MAIN**

Ref.No.	Part No.	Description			Remark
R847	1-216-029-00	METAL CHIP	150	5%	1/10W
R848	1-216-033-00	METAL CHIP	220	5%	1/10W
R849	1-216-033-00	METAL CHIP	220	5%	1/10W
R850	1-216-033-00	METAL CHIP	220	5%	1/10W
R851	1-216-031-00	METAL CHIP	180	5%	1/10W
R852	1-249-406-11	CARBON	120	5%	1/4W
R853	1-249-406-11	CARBON	120	5%	1/4W
R854	1-249-406-11	CARBON	120	5%	1/4W
R855	1-249-406-11	CARBON	120	5%	1/4W
R861	1-216-045-00	METAL CHIP	680	5%	1/10W
R862	1-216-090-00	METAL CHIP	51K	5%	1/10W
R891	1-216-295-00	METAL CHIP	0	5%	1/10W
R892	1-216-073-00	METAL CHIP	10K	5%	1/10W
R893	1-216-073-00	METAL CHIP	10K	5%	1/10W
R894	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S801	1-692-386-21	SWITCH (CD)			
S802	1-692-386-21	SWITCH (OFF)			
S803	1-692-386-21	SWITCH (FM/AM) (U110, 7040, 7042)			
S803	1-692-386-21	SWITCH (FM MW/LW) (7041)			
S804	1-692-386-21	SWITCH (BTM M.SCAN)			
S805	1-572-704-21	SWITCH, KEY BOARD (6)			
S806	1-572-704-21	SWITCH, KEY BOARD (SENS LOUD)			
S807	1-572-704-21	SWITCH, KEY BOARD (5)			
S808	1-572-704-21	SWITCH, KEY BOARD (PRESET DISC +)			
S809	1-572-704-21	SWITCH, KEY BOARD (ATA 4)			
S810	1-572-704-21	SWITCH, KEY BOARD (PRESET DISC -)			
S811	1-572-704-21	SWITCH, KEY BOARD (SHUF 3)			
S812	1-572-704-21	SWITCH, KEY BOARD (+)			
S813	1-572-704-21	SWITCH, KEY BOARD (REPEAT 2)			
S814	1-572-704-21	SWITCH, KEY BOARD (SEL)			
S815	1-572-704-21	SWITCH, KEY BOARD (INTRO 1)			
S816	1-572-704-21	SWITCH, KEY BOARD (-)			
S817	1-572-704-21	SWITCH, KEY BOARD (DSPL)			
S818	1-572-704-21	SWITCH, KEY BOARD (SEEK TRACK + ▶▶|)			
S819	1-572-704-21	SWITCH, KEY BOARD (SEEK TRACK - |◀◀)			
S820	1-572-704-21	SWITCH, KEY BOARD (MUTE) (U110, 7040, 7041)			
S820	1-572-704-21	SWITCH, KEY BOARD (SDK) (7042)			

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Ref.No.	Part No.	Description			Remark
*	A-3295-349-A	MAIN BOARD, COMPLETE (7041)			
*	A-3295-350-A	MAIN BOARD, COMPLETE (U110)			
*	A-3295-356-A	MAIN BOARD, COMPLETE (7040:AEP)			
*	A-3295-357-A	MAIN BOARD, COMPLETE (7040:E)			
*	A-3295-358-A	MAIN BOARD, COMPLETE (7042)			
		*******************			
		< CAPACITOR >			
C1	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C2	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C3	1-124-463-00	ELECT	0.1uF	20%	50V
C4	1-163-227-11	CERAMIC CHIP	10PF		50V
C5	1-126-160-11	ELECT	1uF	20%	50V
C6	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C7	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C8	1-126-160-11	ELECT	1uF	20%	50V
C10	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C11	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C12	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C13	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C14	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C15	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C16	1-126-160-11	ELECT	1uF	20%	50V
C17	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C18	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C19	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C20	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C21	1-126-160-11	ELECT	1uF	20%	50V
C22	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C23	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C24	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C25	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C26	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C27	1-126-157-11	ELECT	10uF	20%	16V
C28	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C29	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C30	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C31	1-124-465-00	ELECT	0.47uF	20%	50V
C32	1-126-160-11	ELECT	1uF	20%	50V
C33	1-126-160-11	ELECT	1uF	20%	50V
C34	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C35	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C36	1-126-157-11	ELECT	10uF	20%	16V
C37	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C38	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C39	1-126-160-11	ELECT	1uF	20%	50V
C40	1-162-587-11	CERAMIC CHIP (U110)	0.039uF	10%	25V
C40	1-163-986-00	CERAMIC CHIP (7040, 7041, 7042)	0.027uF	10%	25V

Ref. No.	Part No.	Description	Remark
R662	1-216-117-00	METAL CHIP 680K 5% 1/10W	
R663	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R664	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R665	1-216-041-00	METAL CHIP 470 5% 1/10W	
R666	1-216-134-00	METAL GLAZE 2.2 5% 1/8W	
R667	1-216-134-00	METAL GLAZE 2.2 5% 1/8W	
		< THERMISTOR >	
THP682	1-809-148-11	THERMISTOR, POSITIVE 2.2	

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Ref. No.	Part No.	Description	Remark
*	A-3295-361-A	KEY BOARD, COMPLETE ******************	
*	3-357-087-01	HOLDER (LCD)	
*	3-387-815-01	PLATE (LCD), GROUND	
		< CAPACITOR >	
C801	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
C802	1-164-222-11	CERAMIC CHIP 0.22uF 25V	
C892	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
		< CONNECTOR >	
* CNP7	1-691-557-21	PIN, CONNECTOR 12P	
		< DIODE >	
D801	8-719-975-84	LED AY1101W-88 (BTM M.SCAN)	
D802	8-719-975-84	LED AY1101W-88 (OFF)	
D804	8-719-975-84	LED AY1101W-88 (PRESET DISC +)	
D805	8-719-975-84	LED AY1101W-88 (6)	
D806	8-719-975-84	LED AY1101W-88 (SENS LOUD)	
D807	8-719-975-84	LED AY1101W-88 (5)	
D808	8-719-975-84	LED AY1101W-88 (PRESET DISC -)	
D809	8-719-975-84	LED AY1101W-88 (ATA 4)	
D810	8-719-975-84	LED AY1101W-88 (SHUF 3)	
D811	8-719-975-84	LED AY1101W-88 (SEL)	
D812	8-719-975-84	LED AY1101W-88 (+)	
D813	8-719-975-84	LED AY1101W-88 (REPEAT 2)	
D814	8-719-975-84	LED AY1101W-88 (INTRO 1)	
D815	8-719-975-84	LED AY1101W-88 (-)	
D816	8-719-975-84	LED AY1101W-88 (MUTE) (U110, 7040, 7041)	
D816	8-719-975-84	LED AY1101W-88 (SDK) (7042)	
D817	8-719-975-84	LED AY1101W-88 (SEEK TRACK - ⏮)	
D819	8-719-975-84	LED AY1101W-88 (SEEK TRACK + ⏭)	
D820	8-719-975-84	LED AY1101W-88 (FM/AM) (U110, 7040, 7042)	
D820	8-719-975-84	LED AY1101W-88 (FM MW/LW) (7041)	
D821	8-719-975-84	LED AY1101W-88 (CD)	
D831	8-719-109-85	DIODE RD5.1ES-B2	
D891	8-719-976-99	DIODE DTZ5.1B	
		< IC >	
IC801	8-759-821-44	IC LC7582	
		< LIQUID CRYSTAL DISPLAY >	
LCD801	1-810-020-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< PILOT LAMP >	
PL801	1-517-156-11	LAMP, PILOT	
PL802	1-517-156-11	LAMP, PILOT	
		< RESISTOR >	
R801	1-216-649-11	METAL CHIP 820 0.5% 1/10W	
R802	1-216-649-11	METAL CHIP 820 0.5% 1/10W	
R803	1-216-651-11	METAL CHIP 1K 0.5% 1/10W	
R804	1-216-651-11	METAL CHIP 1K 0.5% 1/10W	
R805	1-216-653-11	METAL CHIP 1.2K 0.5% 1/10W	
R806	1-216-653-11	METAL CHIP 1.2K 0.5% 1/10W	
R807	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R808	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R809	1-216-657-11	METAL CHIP 1.8K 0.5% 1/10W	
R810	1-216-657-11	METAL CHIP 1.8K 0.5% 1/10W	
R811	1-216-659-11	METAL CHIP 2.2K 0.5% 1/10W	
R812	1-216-659-11	METAL CHIP 2.2K 0.5% 1/10W	
R813	1-216-662-11	METAL CHIP 3K 0.5% 1/10W	
R814	1-216-662-11	METAL CHIP 3K 0.5% 1/10W	
R815	1-216-667-11	METAL CHIP 4.7K 0.5% 1/10W	
R816	1-216-667-11	METAL CHIP 4.7K 0.5% 1/10W	
R817	1-216-670-11	METAL CHIP 6.2K 0.5% 1/10W	
R818	1-216-676-11	METAL CHIP 11K 0.5% 1/10W	
R831	1-216-033-00	METAL CHIP 220 5% 1/10W	
R832	1-216-033-00	METAL CHIP 220 5% 1/10W	
R833	1-216-031-00	METAL CHIP 180 5% 1/10W	
R834	1-216-029-00	METAL CHIP 150 5% 1/10W	
R835	1-216-029-00	METAL CHIP 150 5% 1/10W	
R836	1-216-033-00	METAL CHIP 220 5% 1/10W	
R837	1-216-029-00	METAL CHIP 150 5% 1/10W	
R838	1-216-029-00	METAL CHIP 150 5% 1/10W	
R839	1-216-033-00	METAL CHIP 220 5% 1/10W	
R840	1-216-029-00	METAL CHIP 150 5% 1/10W	
R841	1-216-029-00	METAL CHIP 150 5% 1/10W	
R842	1-216-033-00	METAL CHIP 220 5% 1/10W	
R843	1-216-029-00	METAL CHIP 150 5% 1/10W	
R844	1-216-029-00	METAL CHIP 150 5% 1/10W	
R845	1-216-033-00	METAL CHIP 220 5% 1/10W	
R846	1-216-029-00	METAL CHIP 150 5% 1/10W	

Ref. No.	Part No.	Description			Remark
C41	1-162-587-11	CERAMIC CHIP (U110)	0.039uF	10%	25V
C41	1-163-986-00	CERAMIC CHIP (7040, 7041, 7042)	0.027uF	10%	25V
C42	1-124-463-00	ELECT	0.1uF	20%	50V
C43	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C52	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C53	1-126-163-11	ELECT	4.7uF	20%	50V
C54	1-126-163-11	ELECT	4.7uF	20%	50V
C55	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C61	1-126-160-11	ELECT (7042)	1uF	20%	50V
C62	1-124-250-00	ELECT (7042)	0.15uF	20%	50V
C63	1-136-158-00	FILM (7042)	0.027uF	5%	50V
C64	1-136-161-00	FILM (7042)	0.047uF	5%	50V
C65	1-136-164-00	FILM (7042)	0.082uF	5%	50V
C66	1-130-477-00	FILM (7042)	0.0033uF	5%	50V
C67	1-126-163-11	ELECT (7042)	4.7uF	20%	50V
C68	1-136-163-00	FILM (7042)	0.068uF	5%	50V
C69	1-136-163-00	FILM (7042)	0.068uF	5%	50V
C70	1-124-250-00	ELECT (7042)	0.15uF	20%	50V
C71	1-124-463-00	ELECT (7042)	0.1uF	20%	50V
C72	1-163-245-11	CERAMIC CHIP (7042)	56PF	5%	50V
C81	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C82	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C83	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C84	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C85	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C86	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C88	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C89	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C101	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C102	1-126-160-11	ELECT	1uF	20%	50V
C103	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C104	1-136-159-00	FILM	0.033uF	5%	50V
C105	1-124-434-00	ELECT	220uF	20%	4V
C111	1-124-463-00	ELECT	0.1uF	20%	50V
C112	1-126-157-11	ELECT	10uF	20%	16V
C113	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C114	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C115	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V
C116	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C117	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C118	1-126-157-11	ELECT	10uF	20%	16V
C119	1-126-157-11	ELECT	10uF	20%	16V
C120	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C121	1-124-464-11	ELECT	0.22uF	20%	50V
C122	1-126-157-11	ELECT	10uF	20%	16V
C123	1-126-163-11	ELECT	4.7uF	20%	50V
C124	1-126-163-11	ELECT	4.7uF	20%	50V
C125	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C126	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C201	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C202	1-126-160-11	ELECT	1uF	20%	50V
C203	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C204	1-136-159-00	FILM	0.033uF	5%	50V
C205	1-124-434-00	ELECT	220uF	20%	4V
C211	1-124-463-00	ELECT	0.1uF	20%	50V
C212	1-126-157-11	ELECT	10uF	20%	16V
C213	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C214	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C215	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V
C216	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C217	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C218	1-126-157-11	ELECT	10uF	20%	16V
C219	1-126-157-11	ELECT	10uF	20%	16V
C220	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C221	1-124-464-11	ELECT	0.22uF	20%	50V
C222	1-126-157-11	ELECT	10uF	20%	16V
C223	1-126-163-11	ELECT	4.7uF	20%	50V
C224	1-126-163-11	ELECT	4.7uF	20%	50V
C225	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C226	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C301	1-124-589-11	ELECT	47uF	20%	16V
C302	1-126-157-11	ELECT	10uF	20%	16V
C311	1-124-584-00	ELECT	100uF	20%	10V
C312	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C313	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C314	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C315	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C316	1-124-584-00	ELECT	100uF	20%	10V
C317	1-124-584-00	ELECT	100uF	20%	10V
C401	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C402	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C403	1-126-163-11	ELECT	4.7uF	20%	50V
C405	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C406	1-126-160-11	ELECT	1uF	20%	50V
C407	1-126-157-11	ELECT	10uF	20%	16V
C408	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

MAIN

Ref. No.	Part No.	Description	Remark
C410	1-126-162-11	ELECT 3.3uF 20% 50V	
C411	1-126-157-11	ELECT 10uF 20% 16V	
C412	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C414	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C415	1-126-514-11	ELECT 22uF 20% 16V	
C416	1-126-514-11	ELECT 22uF 20% 16V	
C441	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C442	1-126-101-11	ELECT 100uF 20% 16V	
C701	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C702	1-125-701-11	CAP, DOUBLE LAYER 0.047F 5.5V	
C703	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C704	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C705	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C706	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C707	1-163-229-11	CERAMIC CHIP 12PF 5% 50V	
C708	1-163-229-11	CERAMIC CHIP 12PF 5% 50V	
C710	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C771	1-124-589-11	ELECT 47uF 20% 16V	
C772	1-126-160-11	ELECT 1uF 20% 50V	
C781	1-126-160-11	ELECT 1uF 20% 50V	
C782	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	

< FILTER >

Ref. No.	Part No.	Description	Remark
CF1	1-579-554-21	FILTER, CERAMIC	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
CNJ3	1-573-122-11	SOCKET, CONNECTOR 12P	
CNP1	1-691-512-11	SOCKET, CONNECTOR (ANT)	
* CNP2	1-506-993-11	PIN, CONNECTOR (PC BOARD) 11P	
CNP4	1-580-277-11	PIN, CONNECTOR 16P	
CNP5	1-580-907-11	PLUG, CONNECTOR	

< DIODE >

Ref. No.	Part No.	Description	Remark
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-911-19	DIODE 1SS119	
D3	8-719-911-19	DIODE 1SS119	
D5	8-719-911-19	DIODE 1SS119	
D6	8-719-911-19	DIODE 1SS119	
D7	8-719-911-19	DIODE 1SS119	
D8	8-719-911-19	DIODE 1SS119	
D61	8-719-911-19	DIODE 1SS119 (7042)	
D301	8-719-911-19	DIODE 1SS119	
D311	8-719-109-75	DIODE RD4.3ES-B2	
D312	8-719-109-75	DIODE RD4.3ES-B2	
D401	8-719-109-93	DIODE RD6.2ES-B2	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-110-03	DIODE RD7.5ES-B2	
D404	8-719-200-82	DIODE 11ES2	
D406	8-719-109-89	DIODE RD5.6ES-B2	
D407	8-719-110-13	DIODE RD9.1ES-B2	
D408	8-719-110-17	DIODE RD10ES-B2	
D441	8-719-911-19	DIODE 1SS119	
D701	8-719-911-19	DIODE 1SS119	
D702	8-719-911-19	DIODE 1SS119	
D703	8-719-109-93	DIODE RD6.2ES-B2	
D704	8-719-109-93	DIODE RD6.2ES-B2	
D705	8-719-109-93	DIODE RD6.2ES-B2	
D706	8-719-109-93	DIODE RD6.2ES-B2	
D707	8-719-109-93	DIODE RD6.2ES-B2	
D708	8-719-109-93	DIODE RD6.2ES-B2	
D771	8-719-911-19	DIODE 1SS119	
D772	8-719-109-69	DIODE RD3.6ES-B2	
D781	8-719-110-03	DIODE RD7.5ES-B2	
D782	8-719-109-93	DIODE RD6.2ES-B2	
D783	8-719-109-93	DIODE RD6.2ES-B2	
D901	8-719-911-19	DIODE 1SS119	

< IC >

Ref. No.	Part No.	Description	Remark
IC1	8-759-090-30	IC TA2027F	
IC61	8-759-998-24	IC TDA1579T (7042)	
IC81	8-759-823-81	IC LC7216M	
IC111	8-759-096-19	IC RC4558DR-A	
IC112	8-759-096-19	IC RC4558DR-A	
IC113	8-759-096-19	IC RC4558DR-A	
IC211	8-759-096-19	IC RC4558DR-A	
IC212	8-759-096-19	IC RC4558DR-A	
IC213	8-759-096-19	IC RC4558DR-A	
IC301	8-759-046-31	IC BA328F	
IC302	8-759-932-64	IC BU4052BF	
IC311	8-759-820-15	IC LC7537AN	
IC401	8-759-097-36	IC RH5VA40AA	
IC701	8-759-169-91	IC uPD75518GF-096-3B9	
IC781	8-759-096-16	IC MM1175XF-T1	

< JUMPER RESISTOR >

Ref. No.	Part No.	Description	Remark
JR1	1-216-295-00	METAL CHIP 0 5%	1/10W
JR2	1-216-295-00	METAL CHIP 0 5%	1/10W

< INDUCTOR >

Ref. No.	Part No.	Description	Remark
L1	1-410-316-11	INDUCTOR 1uH	
L2	1-410-324-11	INDUCTOR 4.7uH	
L3	1-410-513-11	INDUCTOR 22uH	
L4	1-410-312-11	INDUCTOR 0.22uH	
L5	1-410-513-11	INDUCTOR 22uH	
L6	1-410-501-11	INDUCTOR 2.2uH	
L61	1-424-036-11	COIL (FILTER) (7042)	
L81	1-410-513-11	INDUCTOR 22uH	

Ref. No.	Part No.	Description	Remark
L82	1-410-501-11	INDUCTOR 2.2uH	
		< TRANSISTOR >	
Q1	8-729-207-56	TRANSISTOR RN1402	
Q51	8-729-016-76	TRANSISTOR 2SC2412KLN-E	
Q52	8-729-016-76	TRANSISTOR 2SC2412KLN-E	
Q401	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q402	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q405	8-729-106-60	TRANSISTOR 2SB1115A	
Q406	8-729-207-56	TRANSISTOR RN1402	
Q407	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q408	8-729-822-84	TRANSISTOR 2SB1202FAST	
Q409	8-729-207-56	TRANSISTOR RN1402	
Q410	8-729-820-68	TRANSISTOR 2SD1802FA-S	
Q411	8-729-205-02	TRANSISTOR 2SA1150	
Q412	8-729-216-22	TRANSISTOR 2SA1162-G	
Q413	8-729-017-27	TRANSISTOR RN1411-TE85L	
Q414	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q415	8-729-216-22	TRANSISTOR 2SA1162-G	
Q416	8-729-207-56	TRANSISTOR RN1402	
Q441	8-729-106-60	TRANSISTOR 2SB1115A	
Q442	8-729-207-56	TRANSISTOR RN1402	
Q701	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q702	8-729-207-56	TRANSISTOR RN1402	
Q703	8-729-207-56	TRANSISTOR RN1402	
Q704	8-729-207-68	TRANSISTOR RN2402	
Q771	8-729-207-68	TRANSISTOR RN2402	
Q772	8-729-207-56	TRANSISTOR RN1402	
		< RESISTOR >	
R1	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R2	1-216-041-00	METAL CHIP 470 5% 1/10W	
R4	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R5	1-216-025-00	METAL CHIP 100 5% 1/10W	
R6	1-216-005-00	METAL CHIP 15 5% 1/10W	
R7	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R8	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R9	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R10	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R11	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R12	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R13	1-216-039-00	METAL CHIP 390 5% 1/10W	
R14	1-216-090-00	METAL CHIP 51K 5% 1/10W	
R15	1-216-046-00	METAL CHIP 750 5% 1/10W	
R16	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R17	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R18	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R19	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R20	1-216-005-00	METAL CHIP 15 5% 1/10W	
R21	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R22	1-216-083-00	METAL CHIP 27K 5% 1/10W	
R23	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R24	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R25	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R26	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R27	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
R28	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
R29	1-216-093-00	METAL CHIP 68K 5% 1/10W	
R30	1-216-093-00	METAL CHIP 68K 5% 1/10W	
R31	1-216-083-00	METAL CHIP 27K 5% 1/10W (7040, 7041, 7042)	
R31	1-216-086-00	METAL GLAZE 36K 5% 1/10W	(U110)
R32	1-216-058-00	METAL GLAZE 2.4K 5% 1/10W	
R33	1-216-079-00	METAL CHIP 18K 5% 1/10W	(U110)
R34	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R35	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R36	1-216-005-00	METAL CHIP 15 5% 1/10W	
R37	1-216-025-00	METAL CHIP 100 5% 1/10W	(7042)
R37	1-216-295-00	METAL CHIP 0 5% 1/10W (U110, 7040, 7041)	
R38	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R39	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R51	1-216-005-00	METAL CHIP 15 5% 1/10W	
R52	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
R53	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R54	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R55	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R61	1-216-005-00	METAL CHIP 15 5% 1/10W	(7042)
R62	1-216-097-00	METAL CHIP 100K 5% 1/10W	(7042)
R63	1-216-085-00	METAL CHIP 33K 5% 1/10W	(7042)
R64	1-216-117-00	METAL CHIP 680K 5% 1/10W	(7042)
R65	1-216-097-00	METAL CHIP 100K 5% 1/10W	(7042)
R66	1-216-083-00	METAL CHIP 27K 5% 1/10W	(7042)
R67	1-216-093-00	METAL CHIP 68K 5% 1/10W	(7042)
R68	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	(7042)
R69	1-216-097-00	METAL CHIP 100K 5% 1/10W	(7042)
R70	1-216-041-00	METAL CHIP 470 5% 1/10W	(7042)
R71	1-216-117-00	METAL CHIP 680K 5% 1/10W	(7042)
R72	1-216-105-00	METAL CHIP 220K 5% 1/10W	(7042)
R73	1-216-089-00	METAL CHIP 47K 5% 1/10W	(7042)
R81	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R83	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R85	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R101	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R102	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R103	1-216-062-00	METAL CHIP 3.6K 5% 1/10W	
R104	1-216-013-00	METAL CHIP 33 5% 1/10W	
R105	1-216-049-00	METAL CHIP 1K 5% 1/10W	

MAIN

Ref. No.	Part No.	Description				Remark
R111	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R112	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R113	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R115	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R116	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R117	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R118	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R119	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R120	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R121	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R122	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R123	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R124	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R125	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R201	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R202	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R203	1-216-062-00	METAL CHIP	3.6K	5%	1/10W	
R204	1-216-013-00	METAL CHIP	33	5%	1/10W	
R205	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R211	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R212	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R213	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R214	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R215	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R216	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R217	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R218	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R219	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R220	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R221	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R222	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R223	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R224	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R225	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R301	1-216-005-00	METAL CHIP	15	5%	1/10W	
R302	1-216-005-00	METAL CHIP	15	5%	1/10W	
R311	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R313	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R314	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R315	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R316	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R317	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R318	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R321	1-216-005-00	METAL CHIP	15	5%	1/10W	
R322	1-216-005-00	METAL CHIP	15	5%	1/10W	
R331	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R332	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R333	1-216-075-00	METAL CHIP	12K	5%	1/10W	

Ref. No.	Part No.	Description				Remark
R334	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R351	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R352	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R401	1-249-395-11	CARBON	15	5%	1/4W	
R402	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R403	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R404	1-216-083-00	METAL CHIP	27K	5%	1/10W	
R405	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R406	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R412	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R413	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R414	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R415	1-216-041-00	METAL CHIP	470	5%	1/10W	
R416	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R417	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R418	1-216-041-00	METAL CHIP	470	5%	1/10W	
R419	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R420	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R421	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R422	1-216-041-00	METAL CHIP	470	5%	1/10W	
R423	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R424	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R425	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R443	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R444	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R445	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R446	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R447	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R448	1-249-389-11	CARBON	4.7	5%	1/4W	
R449	1-249-389-11	CARBON	4.7	5%	1/4W	
R450	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R701	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R702	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R703	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R704	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R705	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R706	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R707	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R708	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R711	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R712	1-216-089-00	METAL CHIP	47K	5%	1/10W	(7041)
R712	1-216-097-00	METAL CHIP	100K	5%	1/10W	(7042)
R712	1-216-101-00	METAL CHIP (7040:AEP)	150K	5%	1/10W	
R713	1-216-089-00	METAL CHIP (7040:AEP)	47K	5%	1/10W	
R713	1-216-097-00	METAL CHIP (U110, 7040:E, 7042)	100K	5%	1/10W	
R713	1-216-101-00	METAL CHIP	150K	5%	1/10W	(7041)

Ref. No.	Part No.	Description	Remark
R714	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R715	1-216-025-00	METAL CHIP 100 5% 1/10W	
R716	1-216-025-00	METAL CHIP 100 5% 1/10W	
R717	1-216-675-11	METAL CHIP 10K 0.5% 1/10W	
R718	1-216-675-11	METAL CHIP 10K 0.5% 1/10W	
R719	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R720	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R721	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R722	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R724	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R725	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R726	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R727	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R728	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R731	1-216-097-00	METAL CHIP 100K 5% 1/10W (7040:E)	
R732	1-216-097-00	METAL CHIP 100K 5% 1/10W (U110, 7040:AEP, 7041, 7042)	
R733	1-216-105-00	METAL CHIP 220K 5% 1/10W (7040:E)	
R734	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R735	1-216-295-00	METAL CHIP 0 5% 1/10W (7040:E)	
R751	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R771	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R781	1-216-005-00	METAL CHIP 15 5% 1/10W	
R782	1-216-025-00	METAL CHIP 100 5% 1/10W	
R783	1-216-025-00	METAL CHIP 100 5% 1/10W	

< VARIABLE RESISTOR >

Ref. No.	Part No.	Description	Remark
RV1	1-238-600-11	RES, ADJ, CARBON 10K	
RV2	1-238-600-11	RES, ADJ, CARBON 10K (7040, 7041, 7042)	
RV2	1-238-601-11	RES, ADJ, CARBON 22K (U110)	
RV61	1-238-595-11	RES, ADJ, CARBON 220 (7042)	

< SWITCH >

Ref. No.	Part No.	Description	Remark
S701	1-571-478-11	SWITCH, SLIDE (POWER SELECT) (U110, 7040:AEP, 7041, 7042)	
S701	1-571-478-11	SWITCH, SLIDE (9k/10k) (7040:E)	

< TRANSFORMER >

Ref. No.	Part No.	Description	Remark
T1	1-404-955-11	TRANSFORMER, IF	

< TUNER UNIT >

Ref. No.	Part No.	Description	Remark
TU1	1-693-000-21	TUNER UNIT (FAE313-A02) (FM/AM) (U110, 7040, 7042)	
TU1	1-693-001-11	TUNER UNIT (FAE313-E01) (FM/MW/LW) (7041)	

< VIBRATOR >

Ref. No.	Part No.	Description	Remark
X1	1-579-278-11	VIBRATOR, CERAMIC (456kHz)	
X81	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)	
X701	1-579-886-21	VIBRATOR, CRYSTAL (32.768kHz)	
X702	1-567-776-21	VIBRATOR, CERAMIC (6MHz)	

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* 1-646-958-11 RESET BOARD

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< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CNJ7	1-691-558-11	SOCKET, CONNECTOR 12P	
CNP3	1-573-121-11	PIN, CONNECTOR 12P	

< SWITCH >

Ref. No.	Part No.	Description	Remark
S871	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE) (RESET)	
S872	1-692-366-11	SWITCH, PUSH (NOSE DET)	

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MISCELLANEOUS

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Ref. No.	Part No.	Description	Remark
F901	1-532-678-11	FUSE, GLASS TUBE (12A)	
F902	1-532-360-XX	FUSE, GLASS TUBE (1A) (30mm) (U110)	
F902	1-532-452-XX	FUSE, GLASS TUBE (1A) (22mm) (7040, 7041, 7042)	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
M901	X-3364-496-1	MOTOR ASSY	
S901	1-692-036-11	SWITCH, SLIDE (HEAD SELECT)	
S903	1-692-065-11	SWITCH, LEAF (MUTE/TAPE)	
S904	1-554-790-21	SWITCH, POWER (MUTE/POWER)	

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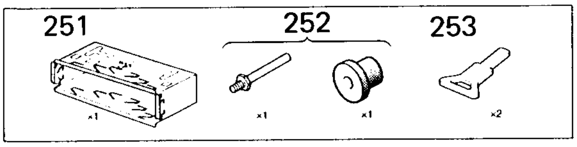
Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS ******************************	
*	3-378-800-01	CUSHION (UPPER)	
*	3-378-801-01	CUSHION (LOWER)	
*	3-387-920-01	INDIVIDUAL CARTON (U110, 7040)	
*	3-387-922-01	INDIVIDUAL CARTON (7041)	
*	3-387-924-01	INDIVIDUAL CARTON (7042)	
	3-756-486-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, DUTCH) (7040:AEP, 7041)	
	3-756-486-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (U110)	
	3-756-486-41	MANUAL, INSTRUCTION (SPANISH, SWEDISH, ITALIAN, PORTUGUESE) (7040:AEP)	
	3-756-486-51	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN) (7042)	
	3-756-486-61	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE) (7040:E)	
	3-756-487-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, DUTCH) (7040:AEP, 7041)	
	3-756-487-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (U110)	
	3-756-487-41	MANUAL, INSTRUCTION, INSTALL (SPANISH, SWEDISH, ITALIAN, PORTUGUESE) (7040:AEP)	
	3-756-487-51	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, GERMAN, ITALIAN) (7042)	
	3-756-487-61	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, CHINESE) (7040:E)	
	X-3364-977-1	CASE ASSY	

****

MOUNTING HARDWARE



Ref. No.	Part No.	Description
* 251	X-3366-235-1	FRAME ASSY, FITTING
252	X-3366-405-1	SCREW ASSY (EXP), FITTING
* 253	3-379-363-01	KEY

****

HARDWARE LIST

****

Ref. No.	Part No.	Description	Remark
#1	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#2	7-621-772-10	SCREW +B 2X4	
#3	7-621-773-95	SCREW +PTT 2.6X6 (S) (U110, 7040:E, 7041, 7042)	
#4	7-621-770-67	SCREW +PTT 2.6X6 (S)	
#5	7-621-770-XX	SCREW +PTT 2.6X8 (S)	
#6	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT	
#7	7-621-555-10	SCREW +K 2X3	
#8	7-621-591-00	SCREW +K 2X4	
#9	7-624-102-04	STOP RING 1.5, TYPE -E	
#10	7-624-104-04	STOP RING 2.0, TYPE -E	
#11	7-624-118-01	RING, RETAINING E-2.5	
#12	7-627-553-88	SCREW, PRECISION +P 2X7	
#13	7-621-775-08	SCREW +P 2.6X3	
#14	7-621-255-15	SCREW +P 2X3	
#15	7-621-255-20	SCREW +P 2X4	
#16	7-621-255-25	SCREW +PTT 2X4 (S)	

9-957-564-11

Sony Corporation
Mobile Electronics Group

English
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Published by Audio Corporate Planning Group

XR-7040/7041/7042/U110

SONY.
SERVICE MANUAL

US Model
Canadian Model
XR-U110

AEP Model
XR-7040/7041

E Model
XR-7040

German Model
XR-7042

CORRECTION-1

Correct your service manual as shown below.

☛ : indicates corrected portion.

Page	INCORRECT			CORRECT		
	Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
39	59	3-384-641-11	PANEL, FRONT (U110, 7040)	59	3-384-641-11	PANEL, FRONT (U110)
				59	3-384-641-71	PANEL, FRONT (7040)

(SPM-95020)

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Sony Corporation
Mobile Electronics Company

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XR-7040/7041/7042/U110

SONY®
SERVICE MANUAL

US Model
Canadian Model
XR-U110
AEP Model
XR-7040/7041
E Model
XR-7040
German Model
XR-7042

SUPPLEMENT-1

File this supplement with the service manual.

1. **Change the Printed Wiring Boards**
2. **Correction**

AMPLIFIER

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
*	A-3295-348-A	AMPLIFIER BOARD, COMPLETE ************************				
		< CAPACITOR >				
C601	1-126-162-11	ELECT	3.3uF	20%	50V	
C602	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V	
C603	1-124-034-51	ELECT	33uF	20%	16V	
C604	1-136-167-00	FILM	0.15uF	5%	50V	
C605	1-136-167-00	FILM	0.15uF	5%	50V	
C611	1-126-162-11	ELECT	3.3uF	20%	50V	
C612	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V	
C613	1-124-034-51	ELECT	33uF	20%	16V	
C614	1-136-167-00	FILM	0.15uF	5%	50V	
C615	1-136-167-00	FILM	0.15uF	5%	50V	
C631	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C632	1-126-176-11	ELECT	220uF	20%	10V	
C633	1-126-768-11	ELECT	2200uF	20%	16V	
C634	1-126-176-11	ELECT	220uF	20%	10V	
C635	1-126-768-11	ELECT	2200uF	20%	16V	
C651	1-126-162-11	ELECT	3.3uF	20%	50V	
C652	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V	
C653	1-124-034-51	ELECT	33uF	20%	16V	
C654	1-136-167-00	FILM	0.15uF	5%	50V	
C655	1-136-167-00	FILM	0.15uF	5%	50V	
C661	1-126-162-11	ELECT	3.3uF	20%	50V	
C662	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V	
C663	1-124-034-51	ELECT	33uF	20%	16V	
C664	1-136-167-00	FILM	0.15uF	5%	50V	
C665	1-136-167-00	FILM	0.15uF	5%	50V	
C997~999	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
		< CONNECTOR >				
* CNJ4	1-580-279-11	SOCKET, CONNECTOR 16P				
* CNP6	1-695-244-21	PLUG, CONNECTOR 15P				
		< JACK >				
CNJ601	1-691-683-51	JACK, PIN 4P (UNILINK IN AUDIO, LINE OUT)				

Ref. No.	Part No.	Description				Remark
		< DIODE >				
D681	8-719-200-82	DIODE	11ES2			
D682	8-719-945-59	DIODE	DSA3A4			
		< IC >				
IC631	8-759-243-27	IC	TA8215H			
IC632	8-759-243-27	IC	TA8215H			
		< TRANSISTOR >				
Q601	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q611	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q651	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q661	8-729-920-21	TRANSISTOR	DTC314TKH04			
		< RESISTOR >				
R601	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R602	1-216-117-00	METAL CHIP	680K	5%	1/10W	
R603	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R604	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R605	1-216-041-00	METAL CHIP	470	5%	1/10W	
R606	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R607	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R611	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R612	1-216-117-00	METAL CHIP	680K	5%	1/10W	
R613	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R614	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R615	1-216-041-00	METAL CHIP	470	5%	1/10W	
R616	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R617	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R631	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R632	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R641	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R651	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R652	1-216-117-00	METAL CHIP	680K	5%	1/10W	
R653	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R654	1-216-067-00	METAL CHIP	5.6K	5%	1/10W	
R655	1-216-041-00	METAL CHIP	470	5%	1/10W	
R656	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R657	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R662	1-216-117-00	METAL CHIP	680K	5%	1/10W	

Ref. No.	Part No.	Description	Remark
R663	1-216-081-00	METAL CHIP 22K 5%	1/10W
R664	1-216-067-00	METAL CHIP 5.6K 5%	1/10W
R665	1-216-041-00	METAL CHIP 470 5%	1/10W
R666	1-216-134-00	METAL CHIP 2.2 5%	1/8W
R667	1-216-134-00	METAL CHIP 2.2 5%	1/8W
R991	1-216-295-00	METAL CHIP 0 5%	1/10W
R992	1-216-295-00	METAL CHIP 0 5%	1/10W

< THERMISTOR(POSITIVE) >

Ref. No.	Part No.	Description	Remark
THP682	1-809-148-11	THERMISTOR, POSITIVE	

****

Ref. No.	Part No.	Description	Remark
*	A-3295-361-A	KEY BOARD, COMPLETE	

****

Ref. No.	Part No.	Description	Remark
*	3-357-087-01	HOLDER (LCD)	
*	3-377-631-21	SHEET (REFLECTOR)	
*	3-387-815-01	PLATE (LCD), GROUND	
*	3-389-489-01	SPACER (CONNECTOR)	

< CAPACITOR >

Ref. No.	Part No.	Description	Remark
C801	1-163-007-11	CERAMIC CHIP 680PF 10%	50V
C802	1-164-222-11	CERAMIC CHIP 0.22uF	25V
C892	1-163-117-00	CERAMIC CHIP 100PF 5%	50V

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CNP7	1-691-557-21	PIN, CONNECTOR 12P	

< DIODE >

Ref. No.	Part No.	Description	Remark
D801	8-719-975-84	LED AY1101W-88 (BTM M.SCAN)	
D802	8-719-975-84	LED AY1101W-88 (OFF)	
D804	8-719-975-84	LED AY1101W-88 (PRESET DISC +)	
D805	8-719-975-84	LED AY1101W-88 (6)	
D806	8-719-975-84	LED AY1101W-88 (SENS LOUD)	
D807	8-719-975-84	LED AY1101W-88 (5)	
D808	8-719-975-84	LED AY1101W-88 (PRESET DISC -)	
D809	8-719-975-84	LED AY1101W-88 (ATA 4)	
D810	8-719-975-84	LED AY1101W-88 (SHUF 3)	
D811	8-719-975-84	LED AY1101W-88 (SEL)	
D812	8-719-975-84	LED AY1101W-88 (+)	
D813	8-719-975-84	LED AY1101W-88 (REPEAT 2)	
D814	8-719-975-84	LED AY1101W-88 (INTRO 1)	
D815	8-719-975-84	LED AY1101W-88 (-)	
D816	8-719-975-84	LED AY1101W-88 (MUTE) (EXCEPT XR-7042)	
D816	8-719-975-84	LED AY1101W-88 (SDK) (XR-7042)	
D817	8-719-975-84	LED AY1101W-88 (SEEK TRACK - ⏮)	
D819	8-719-975-84	LED AY1101W-88 (SEEK TRACK + ⏭)	
D820	8-719-975-84	LED AY1101W-88 (FM/AM) (EXCEPT XR-7041)	
D820	8-719-975-84	LED AY1101W-88 (FM MW/LW) (XR-7041)	
D821	8-719-975-84	LED AY1101W-88 (CD)	
D831	8-719-109-85	DIODE RD5.1ES-B2	
D891	8-719-105-82	DIODE RD5.1M-B2	

< IC >

Ref. No.	Part No.	Description	Remark
IC801	8-759-821-44	IC LC7582	

< LIQUID CRYSTAL DISPLAY >

Ref. No.	Part No.	Description	Remark
LCD801	1-810-020-11	DISPLAY PANEL, LIQUID CRYSTAL	

< PILOT LAMP >

Ref. No.	Part No.	Description	Remark
PL801	1-517-156-11	LAMP, PILOT	
PL802	1-517-156-11	LAMP, PILOT	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R801	1-216-649-11	METAL CHIP 820 0.5% 1/10W	
R802	1-216-649-11	METAL CHIP 820 0.5% 1/10W	
R803	1-216-651-11	METAL CHIP 1K 0.5% 1/10W	
R804	1-216-651-11	METAL CHIP 1K 0.5% 1/10W	
R805	1-216-653-11	METAL CHIP 1.2K 0.5% 1/10W	
R806	1-216-653-11	METAL CHIP 1.2K 0.5% 1/10W	
R807	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R808	1-216-655-11	METAL CHIP 1.5K 0.5% 1/10W	
R809	1-216-657-11	METAL CHIP 1.8K 0.5% 1/10W	
R810	1-216-657-11	METAL CHIP 1.8K 0.5% 1/10W	
R811	1-216-659-11	METAL CHIP 2.2K 0.5% 1/10W	
R812	1-216-659-11	METAL CHIP 2.2K 0.5% 1/10W	
R813	1-216-662-11	METAL CHIP 3K 0.5% 1/10W	
R814	1-216-662-11	METAL CHIP 3K 0.5% 1/10W	
R815	1-216-667-11	METAL CHIP 4.7K 0.5% 1/10W	
R816	1-216-667-11	METAL CHIP 4.7K 0.5% 1/10W	
R817	1-216-670-11	METAL CHIP 6.2K 0.5% 1/10W	
R818	1-216-676-11	METAL CHIP 11K 0.5% 1/10W	
R831	1-216-033-00	METAL CHIP 220 5% 1/10W	
R832	1-216-033-00	METAL CHIP 220 5% 1/10W	
R833	1-216-031-00	METAL CHIP 180 5% 1/10W	
R834	1-216-029-00	METAL CHIP 150 5% 1/10W	
R835	1-216-029-00	METAL CHIP 150 5% 1/10W	
R836	1-216-033-00	METAL CHIP 220 5% 1/10W	
R837	1-216-029-00	METAL CHIP 150 5% 1/10W	
R838	1-216-029-00	METAL CHIP 150 5% 1/10W	
R839	1-216-033-00	METAL CHIP 220 5% 1/10W	
R840	1-216-029-00	METAL CHIP 150 5% 1/10W	
R841	1-216-029-00	METAL CHIP 150 5% 1/10W	
R842	1-216-033-00	METAL CHIP 220 5% 1/10W	
R843	1-216-029-00	METAL CHIP 150 5% 1/10W	
R844	1-216-029-00	METAL CHIP 150 5% 1/10W	
R845	1-216-033-00	METAL CHIP 220 5% 1/10W	

KEY MAIN

Ref. No.	Part No.	Description			Remark
R846	1-216-029-00	METAL CHIP	150	5%	1/10W
R847	1-216-029-00	METAL CHIP	150	5%	1/10W
R848-850	1-216-033-00	METAL CHIP	220	5%	1/10W
R851	1-216-031-00	METAL CHIP	180	5%	1/10W
R852-855	1-249-403-11	CARBON	68	5%	1/4W
R861	1-216-045-00	METAL CHIP	680	5%	1/10W
R862	1-216-090-00	METAL CHIP	51K	5%	1/10W
R892-894	1-216-073-00	METAL CHIP	10K	5%	1/10W

< SWITCH >

Ref. No.	Part No.	Description
S801	1-692-386-21	SWITCH (CD)
S802	1-692-386-21	SWITCH (OFF)
S803	1-692-386-21	SWITCH (FM/AM) (EXCEPT XR-7041)
S803	1-692-386-21	SWITCH (FM MW/LW) (XR-7041)
S804	1-692-386-21	SWITCH (BTM M.SCAN)
S805	1-572-704-21	SWITCH, KEY BOARD (6)
S806	1-572-704-21	SWITCH, KEY BOARD (SENS LOUD)
S807	1-572-704-21	SWITCH, KEY BOARD (5)
S808	1-572-704-21	SWITCH, KEY BOARD (PRESET DISC +)
S809	1-572-704-21	SWITCH, KEY BOARD (ATA 4)
S810	1-572-704-21	SWITCH, KEY BOARD (PRESET DISC -)
S811	1-572-704-21	SWITCH, KEY BOARD (SHUF 3)
S812	1-572-704-21	SWITCH, KEY BOARD (+)
S813	1-572-704-21	SWITCH, KEY BOARD (REPEAT 2)
S814	1-572-704-21	SWITCH, KEY BOARD (SEL)
S815	1-572-704-21	SWITCH, KEY BOARD (INTRO 1)
S816	1-572-704-21	SWITCH, KEY BOARD (-)
S817	1-572-704-21	SWITCH, KEY BOARD (DSPL)
S818	1-572-704-21	SWITCH, KEY BOARD (SEEK TRACK + ⏭)
S819	1-572-704-21	SWITCH, KEY BOARD (SEEK TRACK - ⏮)
S820	1-572-704-21	SWITCH, KEY BOARD (MUTE) (EXCEPT XR-7042)
S820	1-572-704-21	SWITCH, KEY BOARD (SDK) (XR-7042)

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*	A-3295-349-A	MAIN BOARD, COMPLETE (XR-7041)
*	A-3295-350-A	MAIN BOARD, COMPLETE (XR-U110)
*	A-3295-356-A	MAIN BOARD, COMPLETE (XR-7040:AEP)
*	A-3295-357-A	MAIN BOARD, COMPLETE (XR-7040:E)
*	A-3295-358-A	MAIN BOARD, COMPLETE (XR-7042)

****

< CAPACITOR >

Ref. No.	Part No.	Description			Remark
C1	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C2	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C3	1-124-463-00	ELECT	0.1uF	20%	50V
C4	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C5	1-126-160-11	ELECT	1uF	20%	50V
C6	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C7	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C8	1-126-160-11	ELECT	1uF	20%	50V
C10	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C11	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C12	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C13	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C14	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C15	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C16	1-126-160-11	ELECT	1uF	20%	50V
C17	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C18	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C19	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C20	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C21	1-126-160-11	ELECT	1uF	20%	50V
C22	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C23	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C24	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C25	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C26	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C27	1-126-157-11	ELECT	10uF	20%	16V
C28	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C29	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C30	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C31	1-124-465-00	ELECT	0.47uF	20%	50V
C32	1-126-160-11	ELECT	1uF	20%	50V
C33	1-126-160-11	ELECT	1uF	20%	50V
C34	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C35	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C36	1-126-157-11	ELECT	10uF	20%	16V
C37	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C38	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C39	1-126-160-11	ELECT	1uF	20%	50V
C40	1-162-587-11	CERAMIC CHIP (XR-U110)	0.039uF	10%	25V
C40	1-163-986-00	CERAMIC CHIP (EXCEPT XR-U110)	0.027uF	10%	25V
C41	1-162-587-11	CERAMIC CHIP (XR-U110)	0.039uF	10%	25V
C41	1-163-986-00	CERAMIC CHIP (EXCEPT XR-U110)	0.027uF	10%	25V
C42	1-124-463-00	ELECT	0.1uF	20%	50V
C43	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C52	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C53	1-126-163-11	ELECT	4.7uF	20%	50V
C54	1-126-163-11	ELECT	4.7uF	20%	50V
C55	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C61	1-126-160-11	ELECT (XR-7042)	1uF	20%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C62	1-124-250-00	ELECT	0.15uF	20%	50V
		(XR-7042)			
C63	1-136-158-00	FILM	0.027uF	5%	50V
		(XR-7042)			
C64	1-136-161-00	FILM	0.047uF	5%	50V
		(XR-7042)			
C65	1-136-164-00	FILM	0.082uF	5%	50V
		(XR-7042)			
C66	1-130-477-00	MYLAR	0.0033uF	5%	50V
		(XR-7042)			
C67	1-126-163-11	ELECT	4.7uF	20%	50V
		(XR-7042)			
C68	1-136-163-00	FILM	0.068uF	5%	50V
		(XR-7042)			
C69	1-136-163-00	FILM	0.068uF	5%	50V
		(XR-7042)			
C70	1-124-250-00	ELECT	0.15uF	20%	50V
		(XR-7042)			
C71	1-124-463-00	ELECT	0.1uF	20%	50V
		(XR-7042)			
C72	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
		(XR-7042)			
C81	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C82	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C83	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C84	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C85	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C86	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C88	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C89	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C99	1-216-295-00	METAL CHIP	0	5%	1/10W
C101	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C102	1-126-160-11	ELECT	1uF	20%	50V
C103	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C104	1-136-159-00	FILM	0.033uF	5%	50V
C105	1-124-434-00	ELECT	220uF	20%	4V
C111	1-124-463-00	ELECT	0.1uF	20%	50V
C112	1-126-157-11	ELECT	10uF	20%	16V
C113	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C114	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C115	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V
C116	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C117	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C118	1-126-157-11	ELECT	10uF	20%	16V
C119	1-126-157-11	ELECT	10uF	20%	16V
C120	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C121	1-124-464-11	ELECT	0.22uF	20%	50V
C122	1-126-157-11	ELECT	10uF	20%	16V
C123	1-126-163-11	ELECT	4.7uF	20%	50V
C124	1-126-163-11	ELECT	4.7uF	20%	50V
C125	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C126	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C201	1-163-010-11	CERAMIC CHIP	0.0012uF	10%	50V
C202	1-126-160-11	ELECT	1uF	20%	50V
C203	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C204	1-136-159-00	FILM	0.033uF	5%	50V
C205	1-124-434-00	ELECT	220uF	20%	4V
C211	1-124-463-00	ELECT	0.1uF	20%	50V
C212	1-126-157-11	ELECT	10uF	20%	16V
C213	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C214	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C215	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V
C216	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C217	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C218	1-126-157-11	ELECT	10uF	20%	16V
C219	1-126-157-11	ELECT	10uF	20%	16V
C220	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C221	1-124-464-11	ELECT	0.22uF	20%	50V
C222	1-126-157-11	ELECT	10uF	20%	16V
C223	1-126-163-11	ELECT	4.7uF	20%	50V
C224	1-126-163-11	ELECT	4.7uF	20%	50V
C225	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C226	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C301	1-124-589-11	ELECT	47uF	20%	16V
C302	1-126-157-11	ELECT	10uF	20%	16V
C311	1-124-584-00	ELECT	100uF	20%	10V
C312-314					
	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C315	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C316	1-124-584-00	ELECT	100uF	20%	10V
C317	1-124-584-00	ELECT	100uF	20%	10V
C333	1-124-779-00	ELECT CHIP	10uF	20%	16V
C334	1-124-779-00	ELECT CHIP	10uF	20%	16V
C401	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C402	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C403	1-126-163-11	ELECT	4.7uF	20%	50V
C405	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C406	1-126-160-11	ELECT	1uF	20%	50V
C407	1-126-157-11	ELECT	10uF	20%	16V
C408	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C410	1-126-162-11	ELECT	3.3uF	20%	50V
C411	1-126-157-11	ELECT	10uF	20%	16V
C412	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C414	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C415	1-126-514-11	ELECT	22uF	20%	16V
C416	1-126-514-11	ELECT	22uF	20%	16V
C441	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C442	1-126-101-11	ELECT	100uF	20%	16V
C701	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C702	1-125-701-11	DOUBLE LAYER	0.047F		5.5V

MAIN

Ref. No.	Part No.	Description	Remark
C703-705	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C706	1-163-037-11	CERAMIC CHIP 0.022uF 10% 25V	
C707	1-163-229-11	CERAMIC CHIP 12PF 5% 50V	
C708	1-163-229-11	CERAMIC CHIP 12PF 5% 50V	
C710	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C771	1-124-589-11	ELECT 47uF 20% 16V	
C772	1-126-160-11	ELECT 1uF 20% 50V	
C781	1-126-160-11	ELECT 1uF 20% 50V	
C782	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	

< FILTER >

Ref. No.	Part No.	Description	Remark
CF1	1-579-554-21	FILTER, CERAMIC	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CNJ3	1-573-122-21	SOCKET, CONNECTOR 12P	
CNP1	1-691-512-11	SOCKET, CONNECTOR (ANT)	
* CNP2	1-506-993-11	PIN, CONNECTOR (PC BOARD) 11P	
* CNP4	1-580-277-21	PIN, CONNECTOR 16P	
CNP5	1-580-907-11	PLUG, CONNECTOR	

< DIODE >

Ref. No.	Part No.	Description	Remark
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-911-19	DIODE 1SS119	
D3	8-719-911-19	DIODE 1SS119	
D5	8-719-911-19	DIODE 1SS119	
D6	8-719-911-19	DIODE 1SS119	
D7	8-719-911-19	DIODE 1SS119	
D8	8-719-911-19	DIODE 1SS119	
D61	8-719-404-46	DIODE MA110 (XR-7042)	
D301	8-719-911-19	DIODE 1SS119	
D311	8-719-109-75	DIODE RD4.3ES-B2	
D312	8-719-109-75	DIODE RD4.3ES-B2	
D401	8-719-109-93	DIODE RD6.2ES-B2	
D402	8-719-911-19	DIODE 1SS119	
D403	8-719-110-03	DIODE RD7.5ES-B2	
D404	8-719-200-82	DIODE 11ES2	
D406	8-719-109-89	DIODE RD5.6ES-B2	
D407	8-719-110-13	DIODE RD9.1ES-B2	
D408	8-719-110-16	DIODE RD10ES-B1	
D441	8-719-911-19	DIODE 1SS119	
D701	8-719-911-19	DIODE 1SS119	
D702	8-719-911-19	DIODE 1SS119	
D703	8-719-109-93	DIODE RD6.2ES-B2	
D704	8-719-109-93	DIODE RD6.2ES-B2	
D705	8-719-109-93	DIODE RD6.2ES-B2	
D706	8-719-109-93	DIODE RD6.2ES-B2	
D707	8-719-109-93	DIODE RD6.2ES-B2	
D708	8-719-109-93	DIODE RD6.2ES-B2	
D771	8-719-911-19	DIODE 1SS119	
D772	8-719-017-82	DIODE MA8036	
D781	8-719-110-03	DIODE RD7.5ES-B2	
D782	8-719-109-93	DIODE RD6.2ES-B2	
D783	8-719-109-93	DIODE RD6.2ES-B2	
D892	8-719-106-08	DIODE RD6.2M-B2	
D893	8-719-976-99	DIODE DTZ5.1B	
D894	8-719-976-99	DIODE DTZ5.1B	
D901	8-719-911-19	DIODE 1SS119	

< IC >

Ref. No.	Part No.	Description	Remark
IC1	8-759-090-30	IC TA2027F	
IC61	8-759-998-24	IC TDA1579T (XR-7042)	
IC81	8-759-823-81	IC LC7216M	
IC111-113	8-759-096-19	IC RC4558DR-A	
IC211-213	8-759-096-19	IC RC4558DR-A	
IC301	8-759-046-31	IC BA328F	
IC302	8-759-932-64	IC BU4052BF	
IC311	8-759-820-15	IC LC7537AN	
IC401	8-759-097-36	IC RH5VA40AA	
IC701	8-759-169-91	IC UPD75518GF-096-3B9	
IC781	8-759-096-16	IC MM1175XFF	

< JUMPER RESISTOR >

Ref. No.	Part No.	Description	Remark
JR1	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR2	1-216-295-00	METAL CHIP 0 5% 1/10W	

< COIL >

Ref. No.	Part No.	Description	Remark
L1	1-410-316-11	INDUCTOR 1uH	
L2	1-410-324-11	INDUCTOR 4.7uH	
L3	1-410-513-11	INDUCTOR 22uH	
L4	1-410-312-11	INDUCTOR 0.22uH	
L5	1-410-513-11	INDUCTOR 22uH	
L6	1-410-501-11	INDUCTOR 2.2uH	
L61	1-424-036-21	COIL (FILTER) (XR-7042)	
L81	1-410-513-11	INDUCTOR 22uH	
L82	1-410-501-11	INDUCTOR 2.2uH	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remark
Q1	8-729-207-56	TRANSISTOR RN1402	
Q51	8-729-016-79	TRANSISTOR 2SC2412KLN-T146-E	
Q52	8-729-016-79	TRANSISTOR 2SC2412KLN-T146-E	
Q401	8-729-920-85	TRANSISTOR 2SD1664-QR	
Q402	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q405	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
Q406	8-729-207-56	TRANSISTOR RN1402	
Q407	8-729-920-85	TRANSISTOR 2SD1664-QR	

Ref. No.	Part No.	Description	Remark
Q408	8-729-822-84	TRANSISTOR 2SB1202FAST	
Q409	8-729-207-56	TRANSISTOR RN1402	
Q410	8-729-820-68	TRANSISTOR 2SD1802FA-S	
Q411	8-729-205-02	TRANSISTOR 2SA1150-Y	
Q412	8-729-216-22	TRANSISTOR 2SA1162-G	
Q413	8-729-207-66	TRANSISTOR RN1411	
Q414	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q415	8-729-216-22	TRANSISTOR 2SA1162-G	
Q416	8-729-207-56	TRANSISTOR RN1402	
Q441	8-729-106-60	TRANSISTOR 2SB1115A-YQ	
Q442	8-729-207-56	TRANSISTOR RN1402	
Q701	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q702	8-729-207-56	TRANSISTOR RN1402	
Q703	8-729-207-56	TRANSISTOR RN1402	
Q704	8-729-207-68	TRANSISTOR RN2402	
Q771	8-729-207-68	TRANSISTOR RN2402	
Q772	8-729-207-56	TRANSISTOR RN1402	
		< RESISTOR >	
R1	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R2	1-216-041-00	METAL CHIP 470 5% 1/10W	
R4	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R5	1-216-025-00	METAL CHIP 100 5% 1/10W	
R6	1-216-005-00	METAL CHIP 15 5% 1/10W	
R7	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R8	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R9	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R10	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R11	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R12	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R13	1-216-039-00	METAL CHIP 390 5% 1/10W	
R14	1-216-090-00	METAL CHIP 51K 5% 1/10W	
R15	1-216-046-00	METAL CHIP 750 5% 1/10W	
R16	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R17	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R18	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R19	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R20	1-216-005-00	METAL CHIP 15 5% 1/10W	
R21	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R22	1-216-069-00	METAL CHIP 6.8K 5% 1/10W (XR-7042)	
R22	1-216-077-00	METAL CHIP 15K 5% 1/10W (XR-7040, XR-7041)	
R22	1-216-083-00	METAL CHIP 27K 5% 1/10W (XR-U110)	
R23	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R24	1-216-066-00	METAL CHIP 5.1K 5% 1/10W	
R25	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R26	1-216-073-00	METAL CHIP 10K 5% 1/10W	

Ref. No.	Part No.	Description	Remark
R27	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
R28	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
R29	1-216-093-00	METAL CHIP 68K 5% 1/10W	
R30	1-216-093-00	METAL CHIP 68K 5% 1/10W	
R31	1-216-083-00	METAL CHIP 27K 5% 1/10W (EXCEPT XR-U110)	
R31	1-216-086-00	METAL GLAZE 36K 5% 1/10W (XR-U110)	
R32	1-216-058-00	METAL GLAZE 2.4K 5% 1/10W	
R33	1-216-079-00	METAL CHIP 18K 5% 1/10W (XR-7040:E, XR-U110)	
R34	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R35	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
R36	1-216-005-00	METAL CHIP 15 5% 1/10W	
R37	1-216-025-00	METAL CHIP 100 5% 1/10W (XR-7042)	
R37	1-216-295-00	METAL CHIP 0 5% 1/10W (EXCEPT XR-7042)	
R38	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R39	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R51	1-216-295-00	METAL CHIP 0 5% 1/10W	
R52	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
R53	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R54	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R55	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R61	1-216-005-00	METAL CHIP 15 5% 1/10W (XR-7042)	
R62	1-216-097-00	METAL CHIP 100K 5% 1/10W (XR-7042)	
R63	1-216-085-00	METAL CHIP 33K 5% 1/10W (XR-7042)	
R64	1-216-117-00	METAL CHIP 680K 5% 1/10W (XR-7042)	
R65	1-216-097-00	METAL CHIP 100K 5% 1/10W (XR-7042)	
R66	1-216-083-00	METAL CHIP 27K 5% 1/10W (XR-7042)	
R67	1-216-093-00	METAL CHIP 68K 5% 1/10W (XR-7042)	
R68	1-216-065-00	METAL CHIP 4.7K 5% 1/10W (XR-7042)	
R69	1-216-097-00	METAL CHIP 100K 5% 1/10W (XR-7042)	
R70	1-216-041-00	METAL CHIP 470 5% 1/10W (XR-7042)	
R71	1-216-117-00	METAL CHIP 680K 5% 1/10W (XR-7042)	
R72	1-216-105-00	METAL CHIP 220K 5% 1/10W (XR-7042)	
R73	1-216-089-00	METAL GLAZE 47K 5% 1/10W (XR-7042)	
R81	1-216-073-00	METAL CHIP 10K 5% 1/10W	

MAIN

Ref. No.	Part No.	Description			Remark
R83	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R85	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R101	1-216-091-00	METAL CHIP	56K	5%	1/10W
R102	1-216-097-00	METAL CHIP	100K	5%	1/10W
R103	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R104	1-216-013-00	METAL CHIP	33	5%	1/10W
R105	1-216-049-00	METAL CHIP	1K	5%	1/10W
R111	1-216-121-00	METAL CHIP	1M	5%	1/10W
R112	1-216-079-00	METAL CHIP	18K	5%	1/10W
R113	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R115	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R116	1-216-077-00	METAL CHIP	15K	5%	1/10W
R117-119	1-216-121-00	METAL CHIP	1M	5%	1/10W
R120	1-216-049-00	METAL CHIP	1K	5%	1/10W
R121	1-216-049-00	METAL CHIP	1K	5%	1/10W
R122	1-216-085-00	METAL CHIP	33K	5%	1/10W
R123	1-216-077-00	METAL CHIP	15K	5%	1/10W
R124	1-216-085-00	METAL CHIP	33K	5%	1/10W
R125	1-216-077-00	METAL CHIP	15K	5%	1/10W
R201	1-216-091-00	METAL CHIP	56K	5%	1/10W
R202	1-216-097-00	METAL CHIP	100K	5%	1/10W
R203	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R204	1-216-013-00	METAL CHIP	33	5%	1/10W
R205	1-216-049-00	METAL CHIP	1K	5%	1/10W
R211	1-216-121-00	METAL CHIP	1M	5%	1/10W
R212	1-216-079-00	METAL CHIP	18K	5%	1/10W
R213	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R214	1-216-073-00	METAL CHIP	10K	5%	1/10W
R215	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R216	1-216-077-00	METAL CHIP	15K	5%	1/10W
R217-219	1-216-121-00	METAL CHIP	1M	5%	1/10W
R220	1-216-049-00	METAL CHIP	1K	5%	1/10W
R221	1-216-049-00	METAL CHIP	1K	5%	1/10W
R222	1-216-085-00	METAL CHIP	33K	5%	1/10W
R223	1-216-077-00	METAL CHIP	15K	5%	1/10W
R224	1-216-085-00	METAL CHIP	33K	5%	1/10W
R225	1-216-077-00	METAL CHIP	15K	5%	1/10W
R301	1-216-005-00	METAL CHIP	15	5%	1/10W
R302	1-216-005-00	METAL CHIP	15	5%	1/10W
R311	1-216-097-00	METAL CHIP	100K	5%	1/10W
R313-316	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R317	1-216-049-00	METAL CHIP	1K	5%	1/10W
R318	1-216-049-00	METAL CHIP	1K	5%	1/10W
R321	1-216-005-00	METAL CHIP	15	5%	1/10W
R322	1-216-005-00	METAL CHIP	15	5%	1/10W
R331-335	1-216-075-00	METAL CHIP	12K	5%	1/10W
R336	1-216-224-00	METAL GLAZE	12K	5%	1/8W
R351	1-216-097-00	METAL CHIP	100K	5%	1/10W
R352	1-216-097-00	METAL CHIP	100K	5%	1/10W
R401	1-249-395-11	CARBON	15	5%	1/4W
R402	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R403	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R404	1-216-083-00	METAL CHIP	27K	5%	1/10W
R405	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R406	1-216-097-00	METAL CHIP	100K	5%	1/10W
R412	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R413	1-216-049-00	METAL CHIP	1K	5%	1/10W
R414	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R415	1-216-041-00	METAL CHIP	470	5%	1/10W
R416	1-216-049-00	METAL CHIP	1K	5%	1/10W
R417	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R418	1-216-041-00	METAL CHIP	470	5%	1/10W
R419	1-216-081-00	METAL CHIP	22K	5%	1/10W
R420	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R421	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R422	1-216-041-00	METAL CHIP	470	5%	1/10W
R423	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R424	1-216-049-00	METAL CHIP	1K	5%	1/10W
R425	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R443	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R444	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R445-447	1-216-097-00	METAL CHIP	100K	5%	1/10W
R448	1-249-389-11	CARBON	4.7	5%	1/4W
R449	1-249-389-11	CARBON	4.7	5%	1/4W
R450	1-216-049-00	METAL CHIP	1K	5%	1/10W
R701	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R702	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R703-706	1-216-049-00	METAL CHIP	1K	5%	1/10W
R707	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R708	1-216-097-00	METAL CHIP	100K	5%	1/10W
R711	1-216-109-00	METAL GLAZE	330K	5%	1/10W
R712	1-216-089-00	METAL GLAZE (XR-7041)	47K	5%	1/10W
R712	1-216-097-00	METAL CHIP (XR-7042)	100K	5%	1/10W
R712	1-216-101-00	METAL CHIP (XR-7040:AEP)	150K	5%	1/10W
R713	1-216-089-00	METAL GLAZE (XR-7040:AEP)	47K	5%	1/10W
R713	1-216-097-00	METAL CHIP (XR-7040:E, XR-7042, XR-U110)	100K	5%	1/10W

Ref. No.	Part No.	Description	Remark
R713	1-216-101-00	METAL CHIP 150K 5% 1/10W (XR-7041)	
R714	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R715	1-216-025-00	METAL CHIP 100 5% 1/10W	
R716	1-216-025-00	METAL CHIP 100 5% 1/10W	
R717	1-216-675-11	METAL CHIP 10K 0.5% 1/10W	
R718	1-216-675-11	METAL CHIP 10K 0.5% 1/10W	
R719	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R720	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R721	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R722	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R724-728	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R731	1-216-097-00	METAL CHIP 100K 5% 1/10W (XR-7040:E)	
R732	1-216-097-00	METAL CHIP 100K 5% 1/10W (EXCEPT XR-7040:E)	
R733	1-216-105-00	METAL CHIP 220K 5% 1/10W (XR-7040:E)	
R734	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R735	1-216-295-00	METAL CHIP 0 5% 1/10W (XR-7040:E)	
R740	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R751	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R771	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R781	1-216-005-00	METAL CHIP 15 5% 1/10W	
R782	1-216-025-00	METAL CHIP 100 5% 1/10W	
R783	1-216-025-00	METAL CHIP 100 5% 1/10W	
		< VARIABLE RESISTOR >	
RV1	1-238-600-11	RES, ADJ, CARBON 10K	
RV2	1-238-600-11	RES, ADJ, CARBON 10K (EXCEPT XR-U110)	
RV2	1-238-601-11	RES, ADJ, CARBON 22K (XR-U110)	
RV61	1-238-595-11	RES, ADJ, CARBON 220 (XR-7042)	
		< SWITCH >	
S701	1-571-478-11	SWITCH, SLIDE (POWER SELECT) (EXCEPT XR-7040:E)	
S701	1-571-478-11	SWITCH, SLIDE (9K/10K) (XR-7040:E)	
		< TRANSFORMER >	
T1	1-404-955-11	TRANSFORMER, IF	
		< TUNER >	
TU1	1-693-000-21	TUNER UNIT (FM/AM) (EXCEPT XR-7041)	
TU1	1-693-001-11	TUNER UNIT (FM/MW/LW) (XR-7041)	

Ref. No.	Part No.	Description	Remark
		< VIBRATOR >	
X1	1-579-278-11	VIBLATOR, CERAMIC (456kHz)	
X81	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHz)	
X701	1-579-886-21	VIBRATOR, CRYSTAL (32.768kHz)	
X702	1-567-776-21	VIBRATOR, CERAMIC (6MHz)	

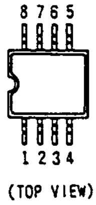
****

Ref. No.	Part No.	Description	Remark
*	1-646-958-11	RESET BOARD ***********	
*	3-389-489-01	SPACER (CONNECTOR)	
		< CONNECTOR >	
* CNJ7	1-691-558-11	SOCKET, CONNECTOR 12P	
CNP3	1-573-121-11	PIN, CONNECTOR 12P	
		< SWITCH >	
S871	1-570-909-11	SWITCH, TACTIL (REFLOW TYPE) (RESET)	
S872	1-692-366-11	SWITCH, PUSH (1 KEY) (NOSE DET)	

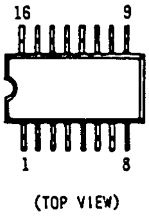
****

SEMICONDUCTOR LEAD LAYOUTS

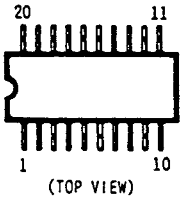
BA328F
RC4558DR-A


8 7 6 5
1 2 3 4
(TOP VIEW)

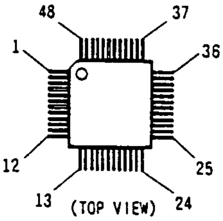
BU4052BF


16
9
1
8
(TOP VIEW)

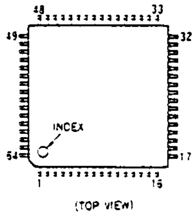
LC7216M
TDA1579T


20
11
1
10
(TOP VIEW)

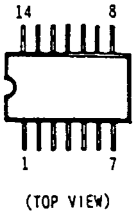
LC7537AN


48
37
1
36
12
25
13
(TOP VIEW)
24

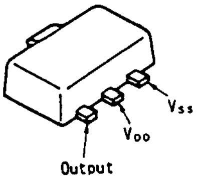
LC7582


48
33
49
32
INDEX
64
17
1
16
(TOP VIEW)

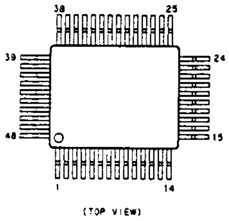
MM1175XFF


14
8
1
7
(TOP VIEW)

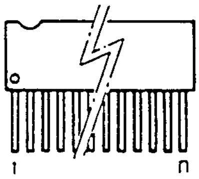
RH5VA40AA


Vss
Vdd
Output

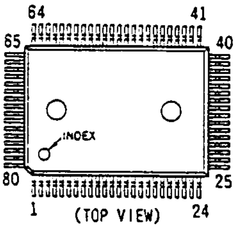
TA2027F


38
25
39
24
48
15
1
14
(TOP VIEW)

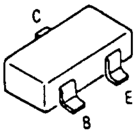
TA8215H



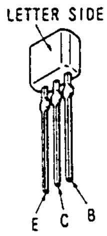
µPD75518GF-096-3B9


64
41
65
40
INDEX
80
25
1
(TOP VIEW)
24

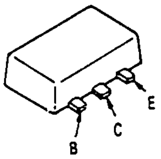
DTC314TKH04
RN1402
RN1411
RN2402
2SA1162-G
2SC2412KLN-T146-E
2SC2712-YG



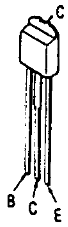
2SA1150-Y


LETTER SIDE
E
C
B

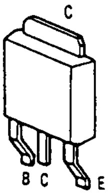
2SB1115A-YQ
2SD1664-QR



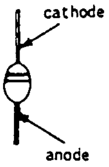
2SB1202FAST



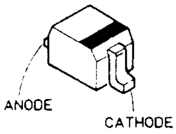
2SD1802FA-S



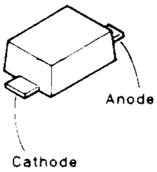
DSA3A4


cathode
anode

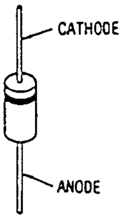
DTZ5.1B
MA110


ANODE
CATHODE

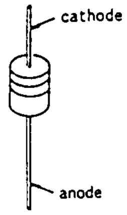
MA8036


Anode
Cathode

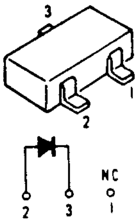
RD4.3ES-B2


CATHODE
ANODE

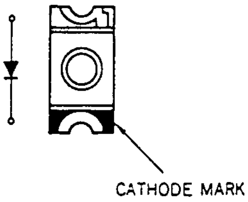
RD5.1ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD7.5ES-B2
RD9.1ES-B2
RD10ES-B1
1SS119
11ES2


cathode
anode

RD5.1M-B2
RD6.2M-B2



AY1101W-88


CATHODE MARK

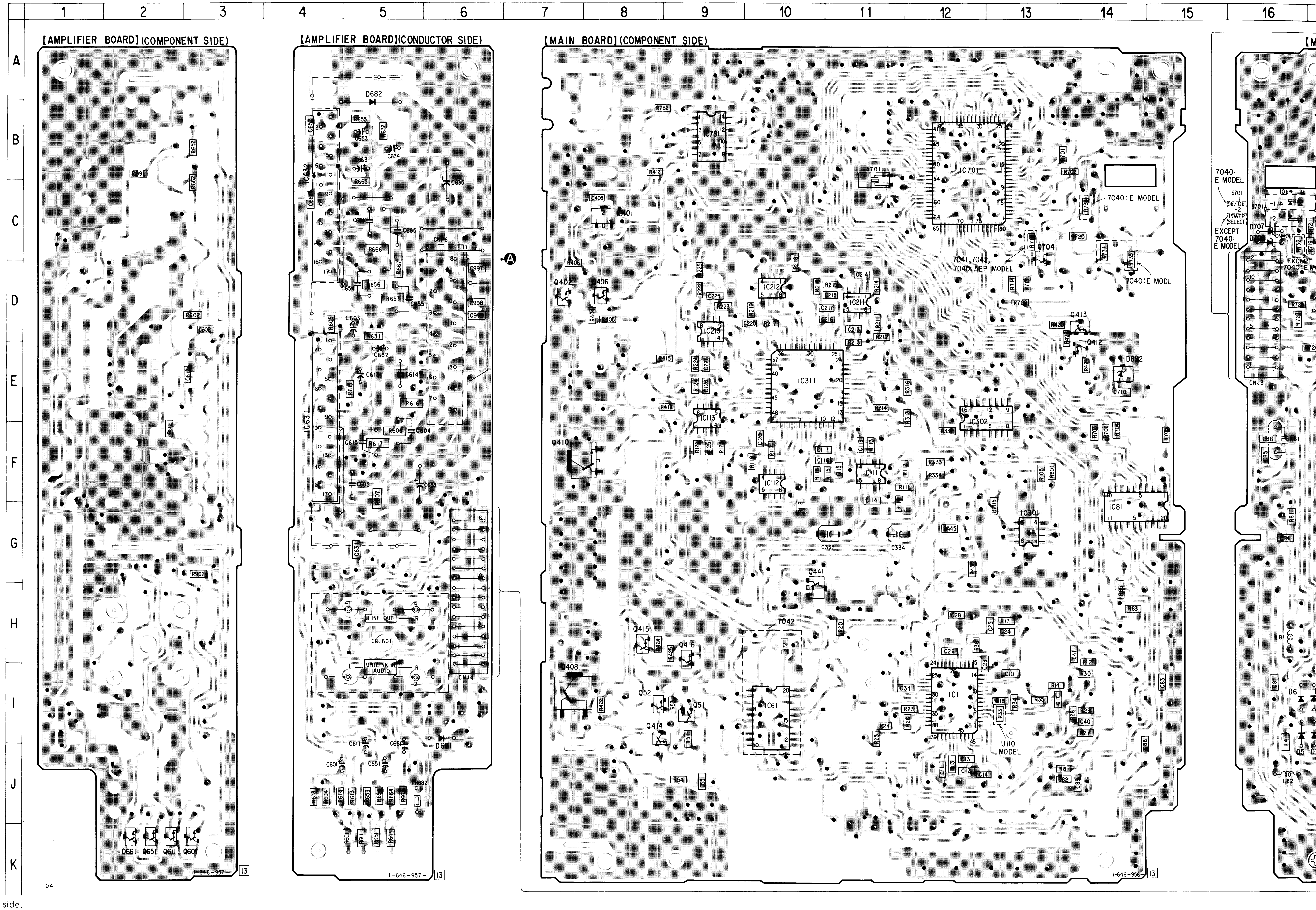
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	K-21	D892	E-14
D2	K-21	D893	F-20
D3	I-17	D894	E-20
D5	J-16	D901	D-22
D6	I-16		
D7	J-17	IC1	I-12
D8	J-19	(IC61)	I-10
D61	I-21	IC81	G-14
D301	F-18	IC111	F-11
D311	G-21	IC112	F-10
D312	C-21	IC113	E-9
D401	D-22	IC211	D-11
D402	E-23	IC212	D-10
D403	E-23	IC213	D-9
D404	H-23	IC301	G-13
D406	D-22	IC302	E-12
D407	E-22	IC311	E-10
D408	J-22	IC401	C-8
D441	H-19	IC631	F-4
D681	I-6	IC632	B-4
D682	A-5	IC701	B-12
D701	C-17	IC781	B-9
D702	C-17	IC801	I-35
D703	D-17		
D704	D-17	Q1	K-20
D705	D-17	Q51	I-9
D706	D-17	Q52	I-8
D707	C-16	Q401	D-22
D708	C-16	Q402	D-7
D771	G-19	Q405	D-23
D772	G-19	Q406	D-8
D781	B-22	Q407	E-23
D782	B-22	Q408	I-7
D783	B-23	Q409	I-23
D801	A-32	Q410	F-7
D802	A-33	Q411	E-17
D804	C-33	Q412	D-14
D805	B-32	Q413	D-14
D806	B-33	Q414	I-8
D807	C-32	Q415	H-8
D808	D-33	Q416	H-9
D809	D-32	Q441	G-10
D810	E-32	Q442	G-20
D811	F-33	Q601	K-3
D812	E-33	Q611	K-2
D813	F-32	Q651	K-2
D814	G-32	Q661	K-2
D815	G-33	Q701	C-17
D816	I-33	Q702	C-17
D817	I-33	Q703	C-17
D819	H-33	Q704	C-13
D820	A-31	Q771	G-19
D821	A-32	Q772	G-18
D831	G-34		
D891	G-35	THP682	J-5

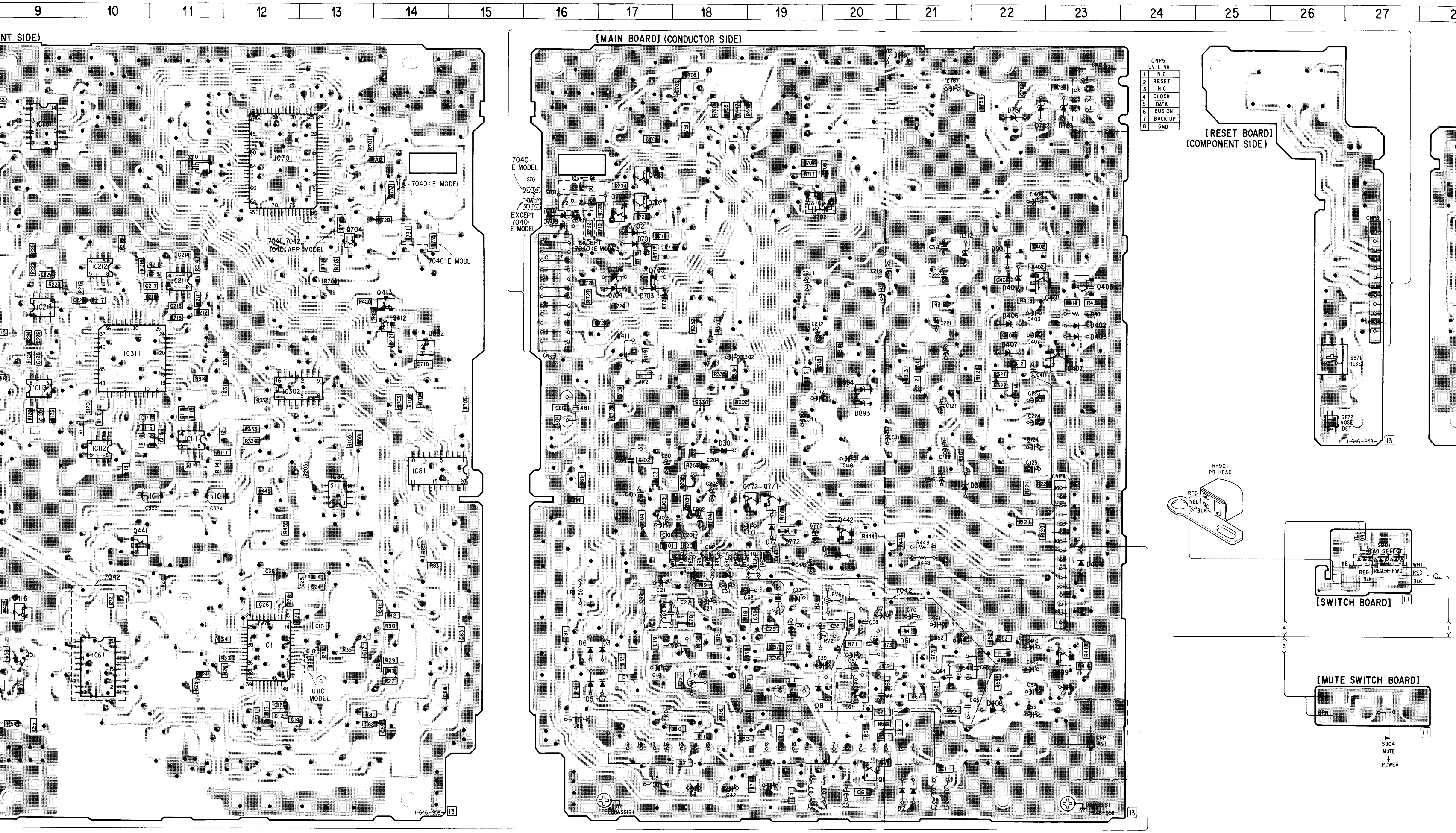
( ): XR-7042 only

PRINTED WIRING BOARDS

• Refer to page 11 for Semiconductor Lead Layouts.

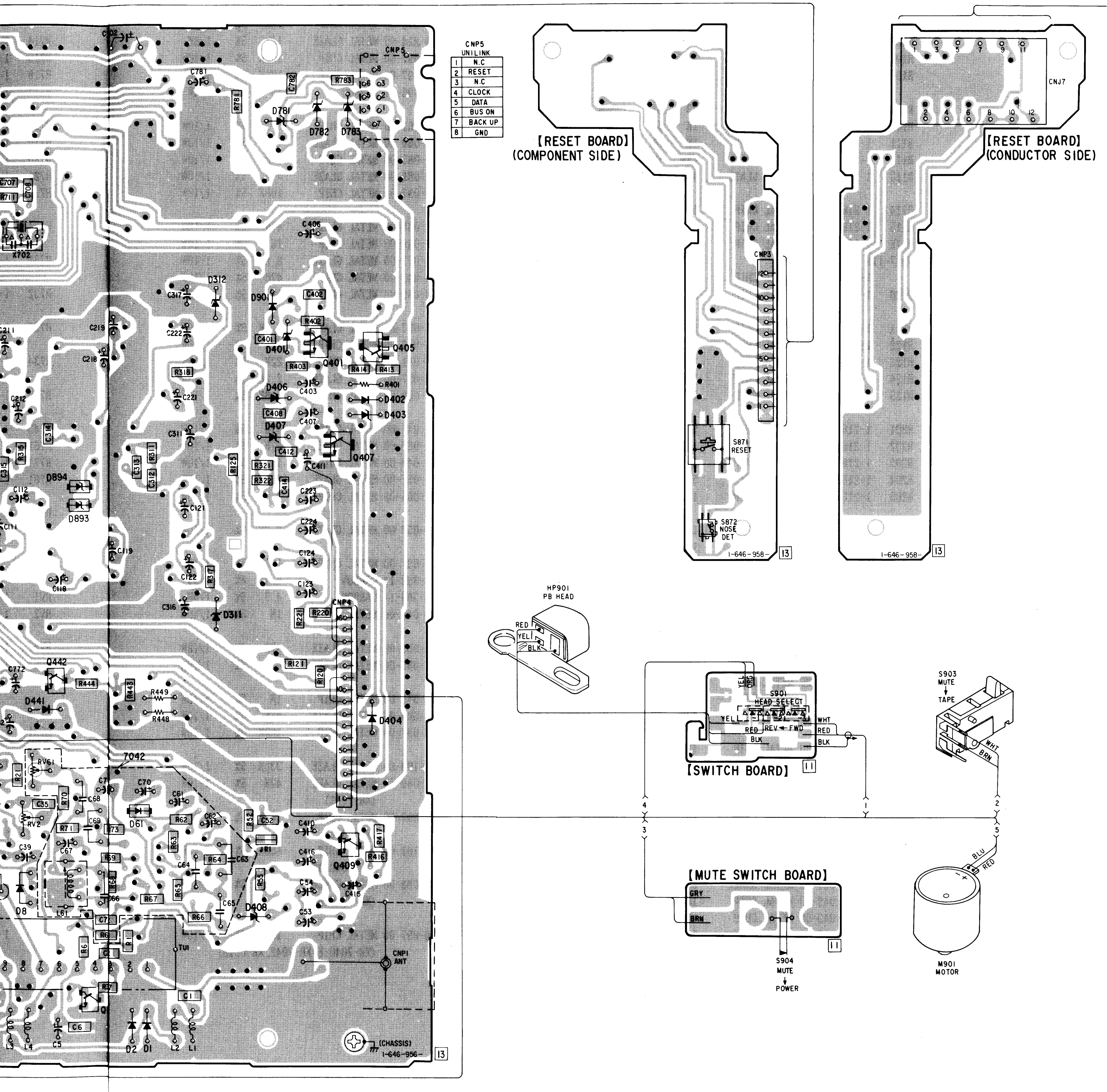

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
[AMPLIFIER BOARD] (COMPONENT SIDE)
[AMPLIFIER BOARD] (CONDUCTOR SIDE)
[MAIN BOARD] (COMPONENT SIDE)
IC632
IC631
D682
D681
CNP6
LINE OUT
CNJ601
UNILINK IN AUDIO
CNJ4
TH682
Q661
Q651
Q611
Q601
IC781
IC701
IC401
X701
IC212
IC211
IC213
IC311
IC113
IC302
IC111
IC112
IC301
IC81
Q402
Q406
Q410
Q441
Q415
Q416
Q408
Q52
Q51
Q414
Q704
Q413
Q412
D892
7042
IC61
IC1
U110 MODEL
7040: E MODEL
7041, 7042, 7040: AEP MODEL
7040: E MODL
7040: E MODEL
S701
POWER SELECT
EXCEPT 7040: E MODEL
D707
D708
CNJ3
1-646-957-
1-646-956-
13
04

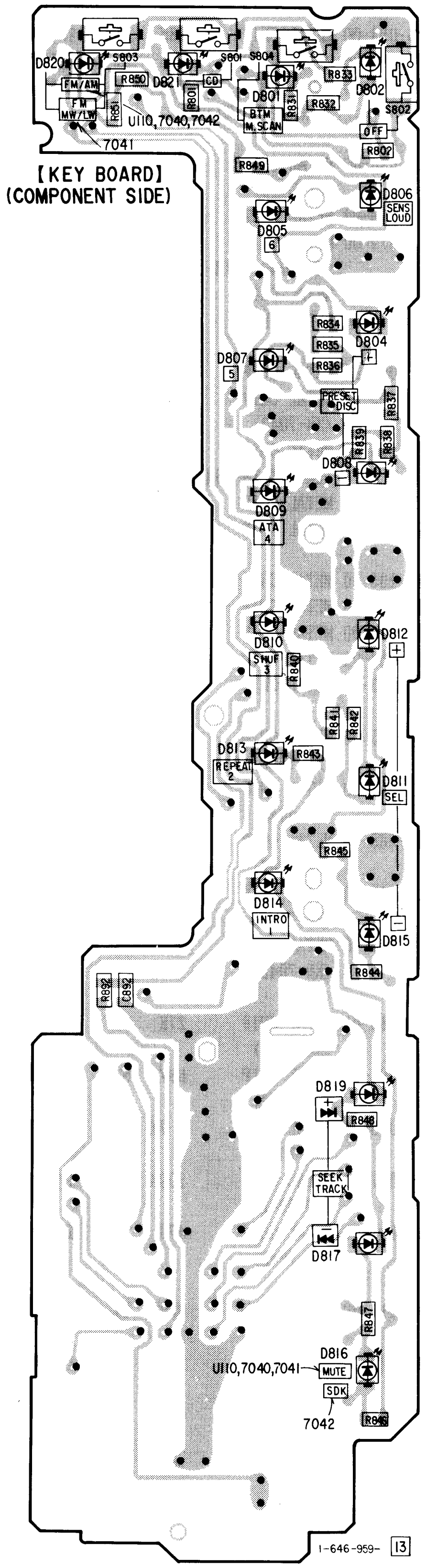
Note:
- o—— : parts extracted from the component side.
- ● : Through hole.

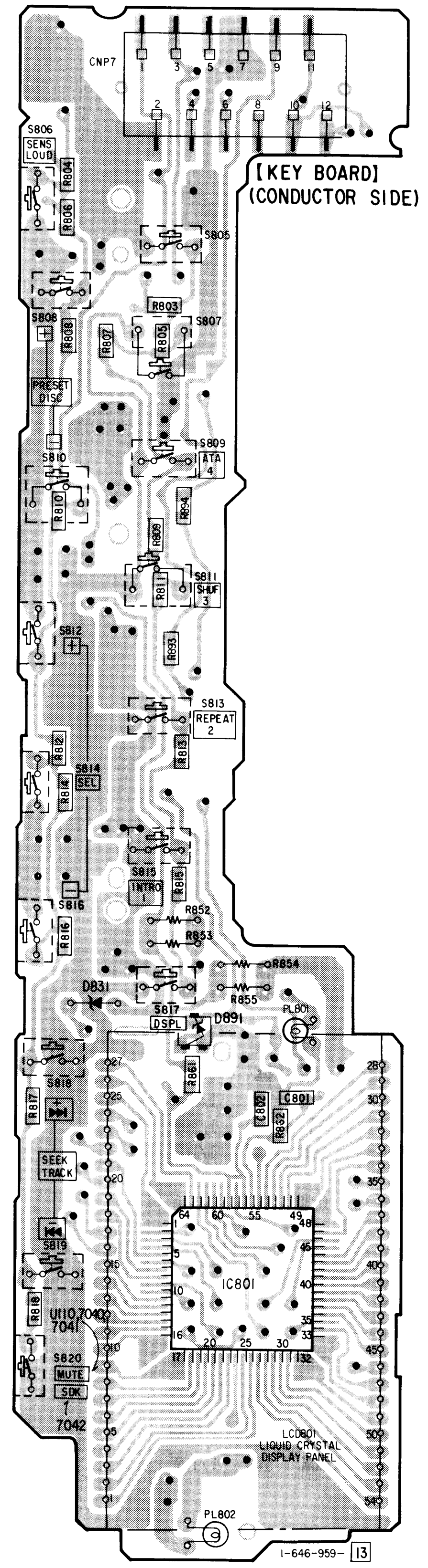

9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
NT SIDE)
[MAIN BOARD] (CONDUCTOR SIDE)
[RESET BOARD] (COMPONENT SIDE)
[SWITCH BOARD]
[MUTE SWITCH BOARD]
IC781
IC701
IC311
IC302
IC301
IC81
IC212
IC211
IC213
IC113
IC112
IC111
IC1
IC61
X701
X702
X81
7040: E MODEL
7041, 7042, 7040: AEP MODEL
7040: E MODL
7042
U110 MODEL
EXCEPT 7040: E MODEL
S701 POWER SELECT
CNJ3
CNP2
CNP4
CNP5
CNP3
CNP1 ANT
(CHASSIS)
1-646-956-
1-646-958-
13
11
S871 RESET
S872 NOSE DET
HP901 PB HEAD
RED
YEL
BLK
WHT
S901 HEAD SELECT
REV ← FWD
GRY
BRN
S904 MUTE
POWER

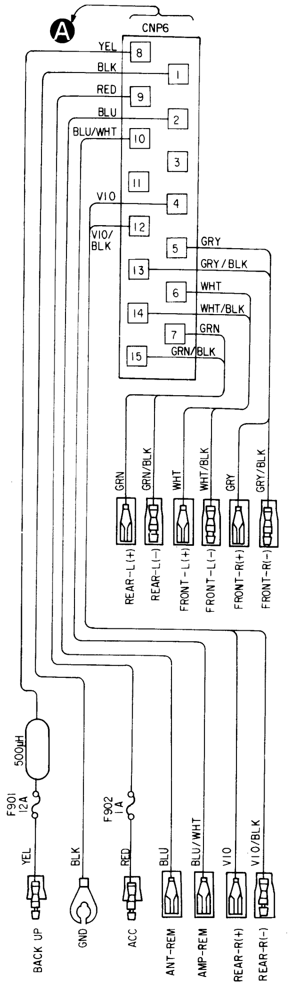
CNP5 UNILINK	
1	N.C
2	RESET
3	N.C
4	CLOCK
5	DATA
6	BUS ON
7	BACK UP
8	GND

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

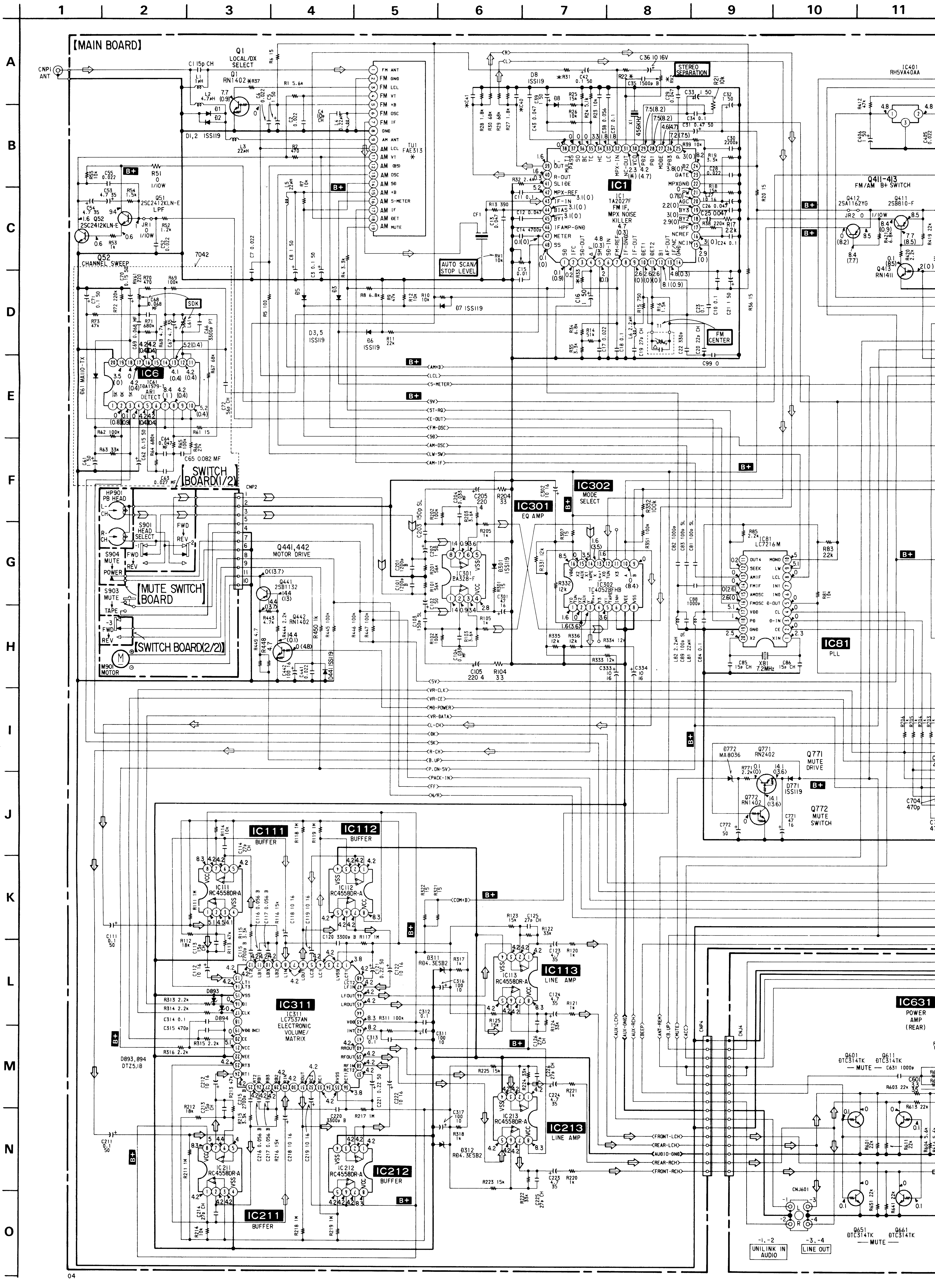

CNP5
UNILINK
1 N.C
2 RESET
3 N.C
4 CLOCK
5 DATA
6 BUS ON
7 BACK UP
8 GND
[RESET BOARD]
(COMPONENT SIDE)
CNP3
S871 RESET
S872 NOSE DET
1-646-958-
[RESET BOARD]
(CONDUCTOR SIDE)
CNJ7
1-646-958-
13
HP901
PB HEAD
RED
YEL
BLK
S901
HEAD SELECT
REV
FWD
WHT
RED
BLK
[SWITCH BOARD]
11
S903
MUTE
TAPE
WHT
BRN
BLU
RED
M901
MOTOR
[MUTE SWITCH BOARD]
GRY
BRN
11
S904
MUTE
POWER
7042
CNP4
CNP1
ANT
(CHASSIS)
1-646-956-
13

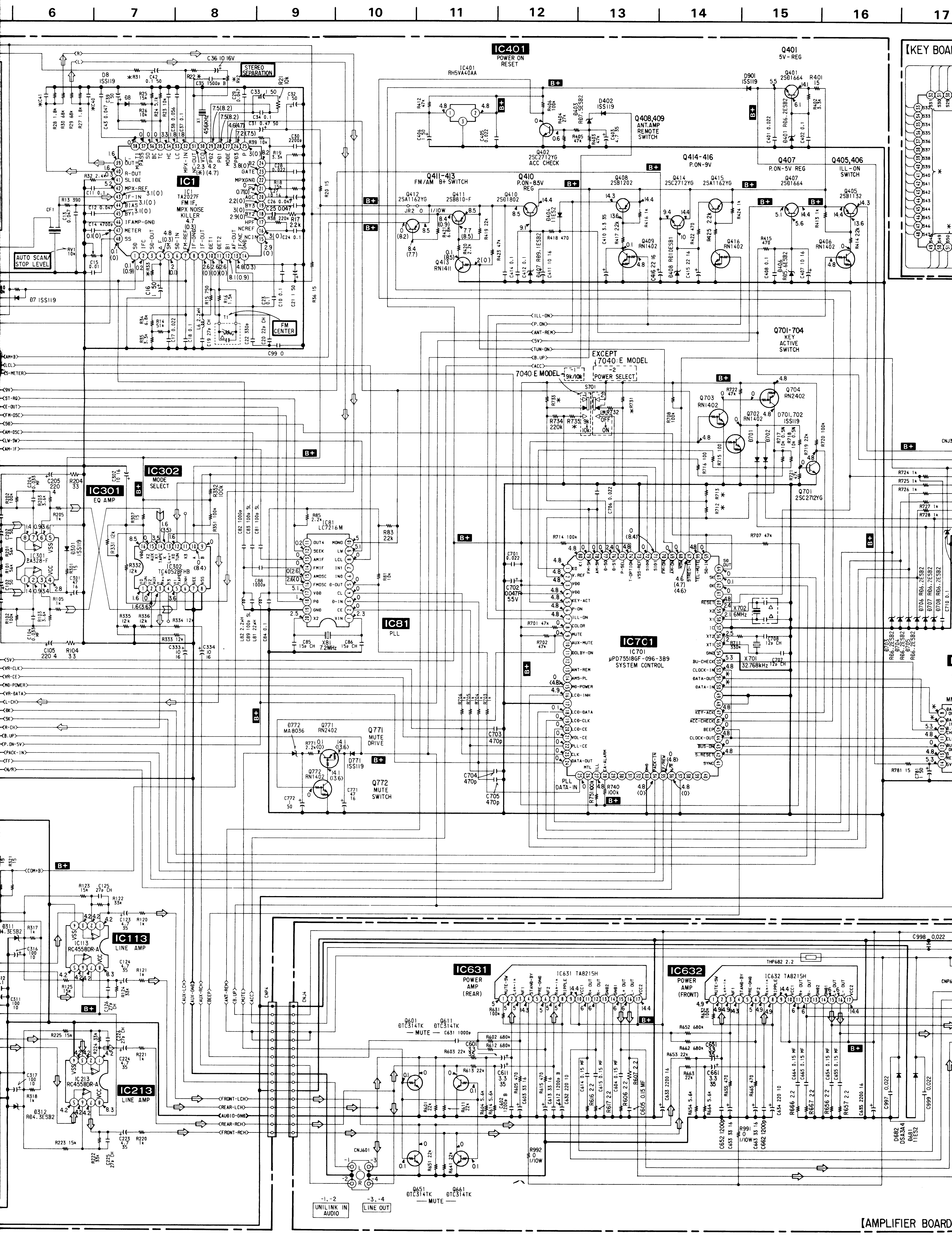

[KEY BOARD]
(COMPONENT SIDE)
D820
S803
FM/AM
FM
MW/LW
S801
CD
S804
BTM
M.SCAN
D802
S802
OFF
7041
U110,7040,7042
D806
SENS
LOUD
D805
6
D804
D807
5
PRESET
DISC
D808
D809
ATA
4
D810
SHUF
3
D812
D813
REPEAT
2
D811
SEL
D814
INTRO
1
D815
D819
SEEK
TRACK
D817
D816
MUTE
SDK
U110,7040,7041
7042
1-646-959-
13

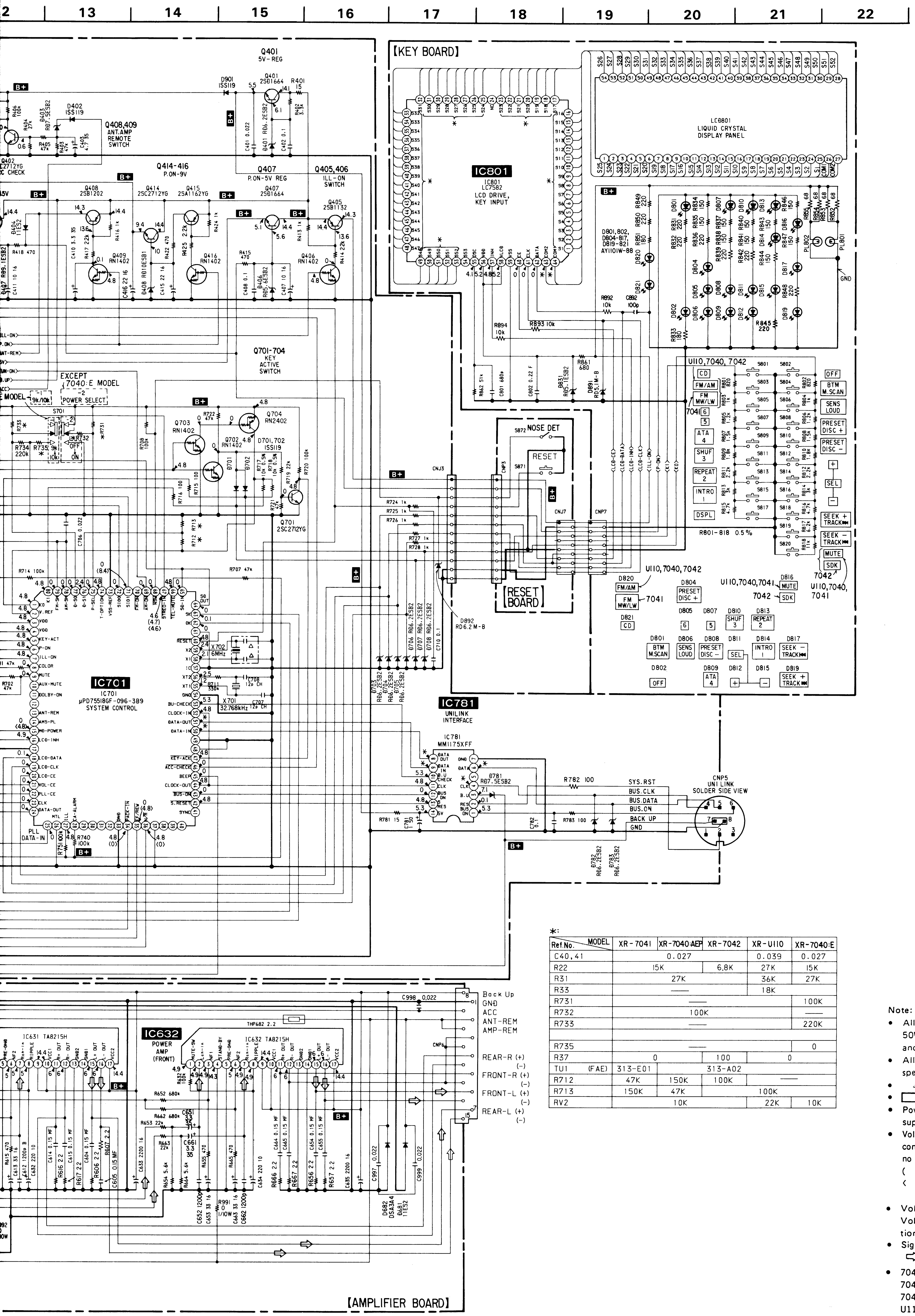

CNP7
[KEY BOARD]
(CONDUCTOR SIDE)
S806
SENS
LOUD
S805
S808
S807
PRESET
DISC
S809
ATA
4
S810
S811
SHUF
3
S812
S813
REPEAT
2
S814
SEL
S815
INTRO
1
S816
D831
S817
DSPL
D891
PL801
S818
SEEK
TRACK
S819
IC801
U110,7040
7041
S820
MUTE
SDK
7042
LCD801
LIQUID CRYSTAL
DISPLAY PANEL
PL802
1-646-959-
13


A
CNP6
YEL
BLK
RED
BLU
BLU/WHT
VIO
VIO/BLK
GRY
GRY/BLK
WHT
WHT/BLK
GRN
GRN/BLK
REAR-L(+)
REAR-L(-)
FRONT-L(+)
FRONT-L(-)
FRONT-R(+)
FRONT-R(-)
500μH
F901
12A
F902
1A
BACK UP
GND
ACC
ANT-REM
AMP-REM
REAR-R(+)
REAR-R(-)

SCHEMATIC DIAGRAM


1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
[MAIN BOARD]
CNP1 ANT
Q1 LOCAL/DX SELECT
Q1 RN1402
D1,2 1SS119
TU1 FAE313
FM ANT
FM GND
FM LCL
FM VT
FM +B
FM OSC
FM IF
GND
AM ANT
AM LCL
AM VT
AM OSC
AM +B
AM S-METER
AM IF
AM DET
AM MUTE
IC1 TA2027F FM IF, MPX NOISE KILLER
STEREO SEPARATION
AUTO SCAN/STOP LEVEL
FM CENTER
X1 456KHz
D3,5 1SS119
D6 1SS119
D7 1SS119
D8 1SS119
Q51 2SC2412KLN-E LPF
Q52 2SC2412KLN-E
Q52 CHANNEL SWEEP
SDK
IC6
IC61 TDA1579-T ARI DETECT
D61 MA110-TX
SWITCH BOARD(1/2)
CNP2
HP901 PB HEAD
S901 HEAD SELECT
FWD
REV
S904 MUTE
POWER
[MUTE SWITCH] BOARD
S903 MUTE
TAPE
[SWITCH BOARD(2/2)]
M900 MOTOR
Q441,442 MOTOR DRIVE
Q441 2SB1132
Q442 RN1402
D441 1SS119
IC301 EQ AMP
IC301 BA328-F
IC302 MODE SELECT
IC302 TC4052BFHB
IC81 LC7216M
IC81 PLL
X81 7.2MHz
IC401 RH5VA40AA
Q411-413 FM/AM B+ SWITCH
Q412 2SA1162YG
Q411 2SB810-F
Q413 RN1411
D772 MA8036
Q771 RN2402
Q771 MUTE DRIVE
D771 1SS119
Q772 RN1402
Q772 MUTE SWITCH
IC111 BUFFER
IC111 RC4558DR-A
IC112 BUFFER
IC112 RC4558DR-A
IC311
IC311 LC7537AN ELECTRONIC VOLUME/MATRIX
D893,894 DTZ5.1B
D311 RD4.3ESB2
D312 RD4.3ESB2
IC113 LINE AMP
IC113 RC4558DR-A
IC213 LINE AMP
IC213 RC4558DR-A
IC211 BUFFER
IC211 RC4558DR-A
IC212 BUFFER
IC212 RC4558DR-A
CNP4
CNJ4
IC631 POWER AMP (REAR)
Q601 DTC314TK
Q611 DTC314TK
MUTE
Q651 DTC314TK
Q661 DTC314TK
CNJ601
UNILINK IN AUDIO
LINE OUT
B+
<AM+B>
<LCL>
<S-METER>
<9V>
<ST-RQ>
<E-OUT>
<FM-OSC>
<SD>
<AM-OSC>
<LW-SW>
<AM-IF>
<5V>
<VR-CLK>
<VR-CE>
<MD-POWER>
<VR-DATA>
<L-CH>
<DK>
<SK>
<R-CH>
<B.UP>
<P.ON-5V>
<PACK-IN>
<FF>
<N/R>
<COM+B>
<AUX-LCH>
<AUX-GND>
<AUX-RCH>
<BEEP>
<ANT-REM>
<B.UP>
<MUTE>
<ACC>
<FRONT-LCH>
<REAR-LCH>
<AUDIO-GND>
<REAR-RCH>
<FRONT-RCH>
04


6
7
8
9
10
11
12
13
14
15
16
17
IC401
POWER ON RESET
IC401 RH5VA40AA
Q401 5V-REG
Q401 2SD1664
D901 1SS119
Q402 2SC2712YG ACC CHECK
D402 1SS119
Q408,409 ANT.AMP REMOTE SWITCH
Q414-416 P.ON-9V
Q407 P.ON-5V REG
Q405,406 ILL-ON SWITCH
Q411-413 FM/AM B+ SWITCH
Q410 P.ON-8.5V REG
Q412 2SA1162YG
Q411 2SB810-F
Q410 2SD1802
Q408 2SB1202
Q414 2SC2712YG
Q415 2SA1162YG
Q407 2SD1664
Q405 2SB1132
Q413 RN1411
Q409 RN1402
Q416 RN1402
Q406 RN1402
【KEY BOARD
STEREO SEPARATION
IC1
IC1 TA2027F FM IF, MPX NOISE KILLER
456KHz
AUTO SCAN/STOP LEVEL
FM CENTER
D7 1SS119
IC302 MODE SELECT
IC302 TC4052BFHB
IC301 EQ AMP
IC301 BA328-F
D301 1SS119
IC81 PLL
IC81 LC7216M
X81 7.2MHz
Q701-704 KEY ACTIVE SWITCH
EXCEPT 7040:E MODEL
7040:E MODEL
POWER SELECT
S701
Q703 RN1402
Q704 RN2402
Q702 RN1402
D701,702 1SS119
Q701 2SC2712YG
IC701
IC701 μPD75518GF-096-3B9 SYSTEM CONTROL
X702 6MHz
X701 32.768kHz
Q771 MUTE DRIVE
Q772 MUTE SWITCH
D772 MA8036
Q771 RN2402
Q772 RN1402
D771 1SS119
IC113 LINE AMP
IC113 RC4558DR-A
IC213 LINE AMP
IC213 RC4558DR-A
IC631 POWER AMP (REAR)
IC631 TA8215H
IC632 POWER AMP (FRONT)
IC632 TA8215H
Q601 DTC314TK
Q611 DTC314TK
Q651 DTC314TK
Q661 DTC314TK
MUTE
CNJ601
UNILINK IN AUDIO
LINE OUT
CNP4
CNJ4
THP682 2.2
D682 DSA3A4
D681 1IE52
【AMPLIFIER BOARD
B+



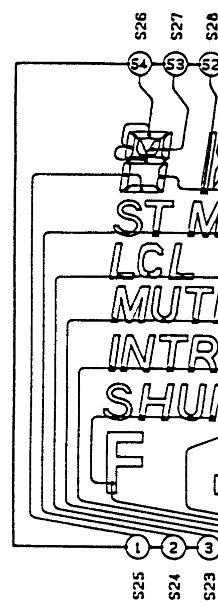
12
13
14
15
16
17
18
19
20
21
22
[KEY BOARD]
IC801
LC7582
LCD DRIVE, KEY INPUT
LC0801
LIQUID CRYSTAL DISPLAY PANEL
Q401
5V-REG
Q408,409
ANT.AMP REMOTE SWITCH
Q414-416
P.ON-9V
Q407
P.ON-5V REG
Q405,406
ILL-ON SWITCH
Q701-704
KEY ACTIVE SWITCH
EXCEPT 7040:E MODEL
POWER SELECT
IC701
μPD75518GF-096-3B9
SYSTEM CONTROL
X702 2.16MHz
X701 32.768kHz
IC781
UNILINK INTERFACE
MM1175XFF
CNP5
UNI LINK
SOLDER SIDE VIEW
SYS.RST
BUS.CLK
BUS.DATA
BUS.ON
BACK UP
GND
NOSE DET
RESET
[RESET BOARD]
U110,7040,7042
R801-818 0.5%
OFF
BTM M.SCAN
SENS LOUD
PRESET DISC +
PRESET DISC −
SEL
SEEK + TRACK
SEEK − TRACK
MUTE
SDK
CD
FM/AM
FM MW/LW
ATA 4
SHUF 3
REPEAT 2
INTRO 1
DSPL
IC631 TA8215H
IC632
POWER AMP (FRONT)
IC632 TA8215H
Back Up
GND
ACC
ANT-REM
AMP-REM
REAR-R (+)
(−)
FRONT-R (+)
(−)
FRONT-L (+)
(−)
REAR-L (+)
(−)
[AMPLIFIER BOARD]

*:

Ref.No. \ MODEL	XR-7041	XR-7040:AEP	XR-7042	XR-U110	XR-7040:E
C40, 41	0.027			0.039	0.027
R22	15K		6.8K	27K	15K
R31	27K			36K	27K
R33	——			18K	
R731	——				100K
R732	100K				——
R733	——				220K
R735	——				0
R37	0		100	0	
TU1 (FAE)	313-E01	313-A02			
R712	47K	150K	100K	——	
R713	150K	47K	100K		
RV2	10K			22K	10K

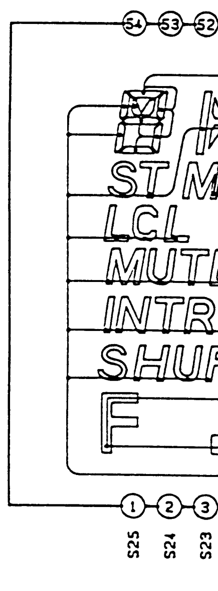
- **Liquid Crystal**

SEGMEN



S26
S27
S28
ST M
LCL
MUTE
INTR
SHUF
F
S25
S24
S23

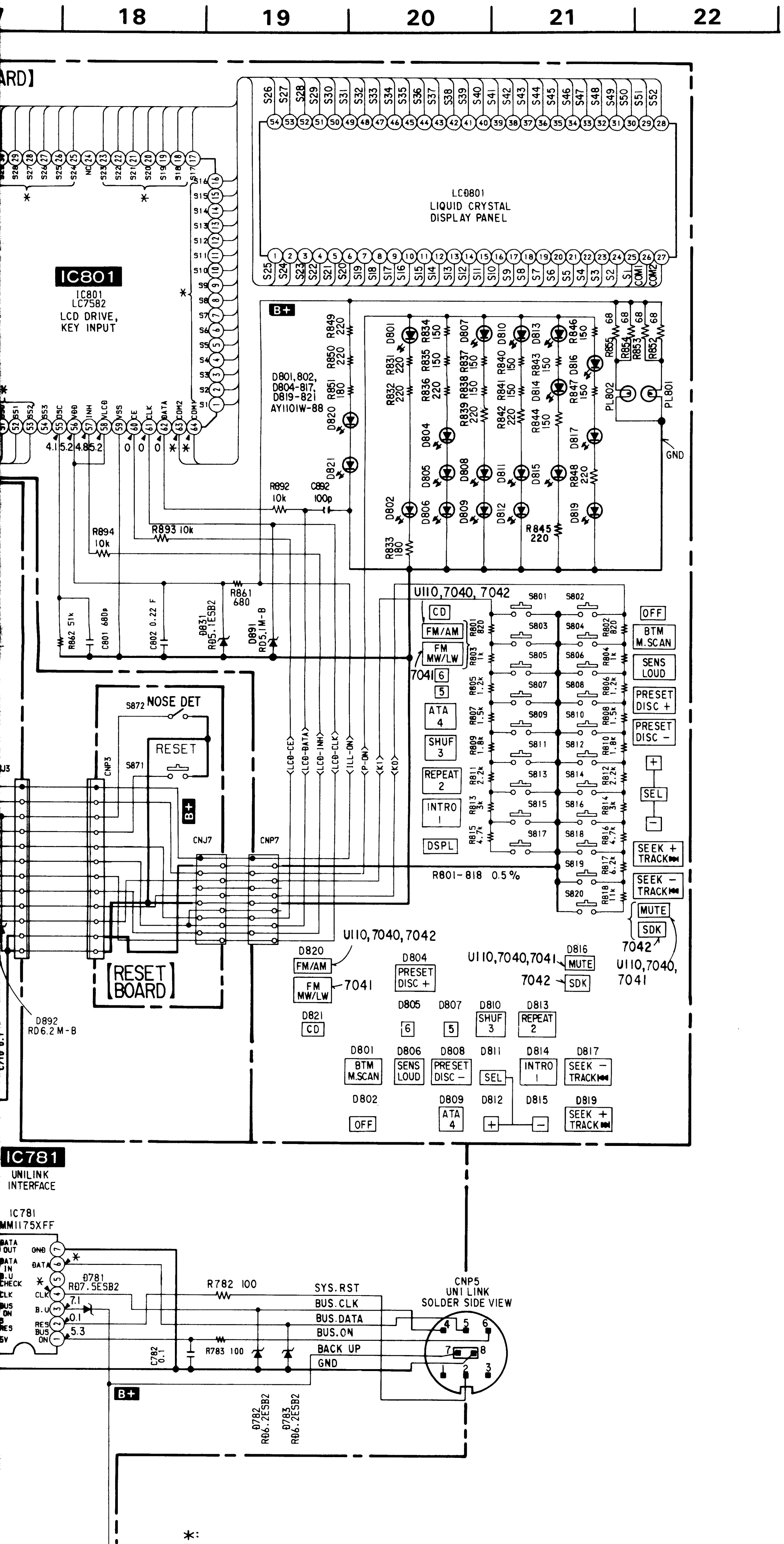
COMMON



S26
S27
S28
ST M
LCL
MUTE
INTR
SHUF
F
S25
S24
S23

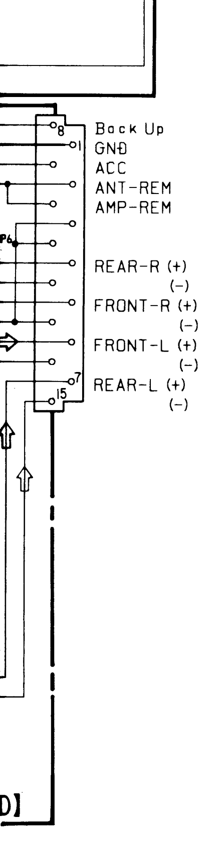
Note:

- All capacitors are in μF u
  50WV or less are not inc
  and tantalums.
- All resistors are in Ω anc
  specified.
- △ : internal componer
- ▭ : adjustment for rep
- Power voltage is dc 14.4V
  supply from Back Up and A
- Voltage is dc with respect to
  conditions.
  no mark : FM
  (   ) : AM
  〈   〉: PLAY
  ✳ : Impossible measu
- Voltages are taken with a V
  Voltage variations may be
  tion tolerances.
- Signal path.
  ⇨ : FM
- 7040 : XR-7040
  7041 : XR-7041
  7042 : XR-7042
  U110 : XR-U110


18
19
20
21
22
IC801
IC801 LC7582 LCD DRIVE, KEY INPUT
LCD801 LIQUID CRYSTAL DISPLAY PANEL
B+
D801,802, D804-817, D819-821 AY1101W-88
PL802
PL801
GND
U110,7040,7042
NOSE DET
RESET
[RESET BOARD]
CNP3
CNJ7
CNP7
R801-818 0.5%
U110,7040,7042
U110,7040,7041
7042
7041
D892 RD6.2M-B
IC781
UNILINK INTERFACE
IC781 MM1175XFF
D781 RD7.5ESB2
R782 100
R783 100
SYS.RST
BUS.CLK
BUS.DATA
BUS.ON
BACK UP
GND
CNP5 UNI LINK SOLDER SIDE VIEW
D782 RD6.2ESB2
D783 RD6.2ESB2
OFF
BTM M.SCAN
SENS LOUD
PRESET DISC +
PRESET DISC −
SEL
SEEK + TRACK
SEEK − TRACK
MUTE
SDK
CD
FM/AM
FM MW/LW
ATA 4
SHUF 3
REPEAT 2
INTRO 1
DSPL

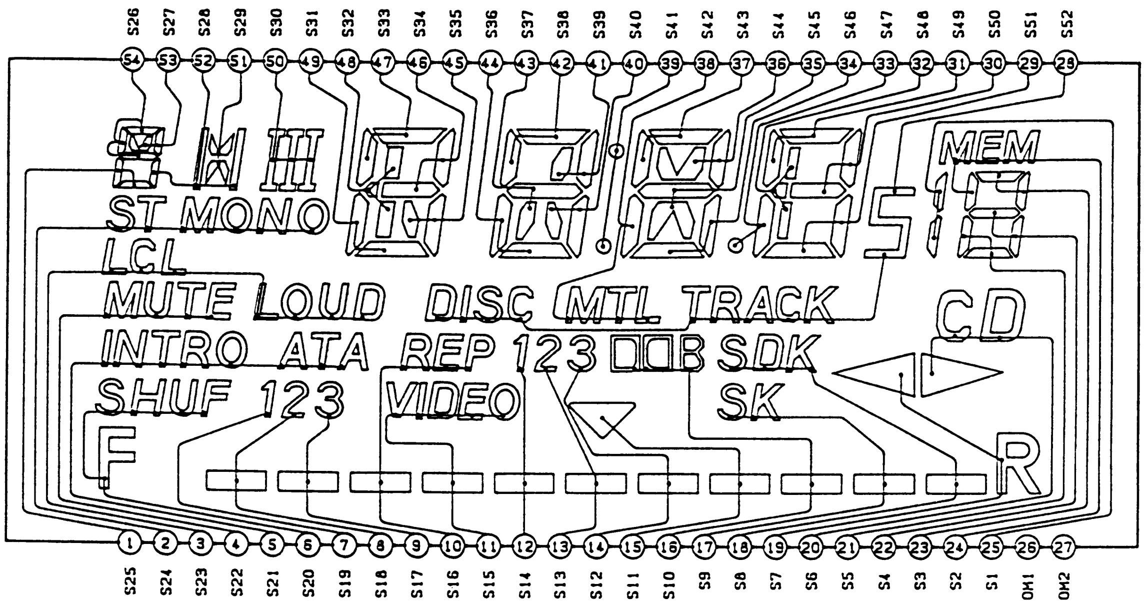
*:

Ref.No. MODEL	XR-7041	XR-7040:AEP	XR-7042	XR-U110	XR-7040:E
C40,41	0.027			0.039	0.027
R22	15K		6.8K	27K	15K
R31	27K			36K	27K
R33	——			18K	
R731	——				100K
R732	100K				——
R733	——				220K
R735	——				0
R37	0		100	0	
TU1 (FAE)	313-E01	313-A02			
R712	47K	150K	100K	——	
R713	150K	47K	100K		
RV2	10K			22K	10K

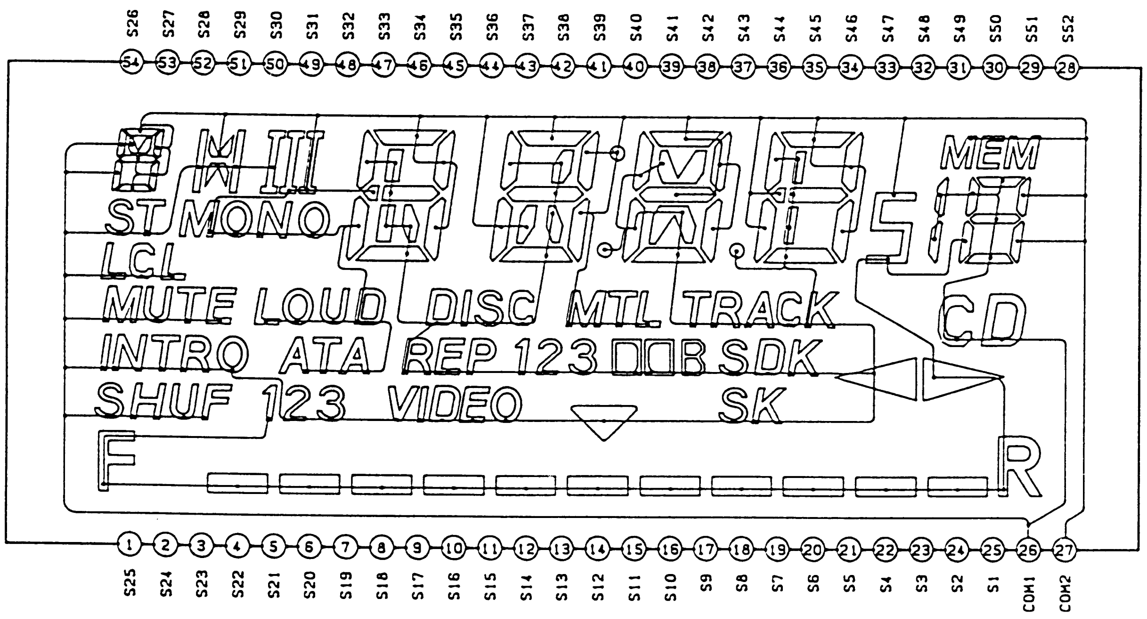

Back Up
GND
ACC
ANT-REM
AMP-REM
REAR-R (+)
(−)
FRONT-R (+)
(−)
FRONT-L (+)
(−)
REAR-L (+)
(−)

- **Liquid Crystal Display Panel (LCD801)**

SEGMENT


S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S52
MEM
ST MONO
LCL
MUTE LOUD DISC MTL TRACK
CD
INTRO ATA REP 123 B SDK
SHUF 123 VIDEO SK
F
R
S25 S24 S23 S22 S21 S20 S19 S18 S17 S16 S15 S14 S13 S12 S11 S10 S9 S8 S7 S6 S5 S4 S3 S2 S1 COM1 COM2

COMMON


S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S52
MEM
ST MONO
LCL
MUTE LOUD DISC MTL TRACK
CD
INTRO ATA REP 123 B SDK
SHUF 123 VIDEO SK
F
R
S25 S24 S23 S22 S21 S20 S19 S18 S17 S16 S15 S14 S13 S12 S11 S10 S9 S8 S7 S6 S5 S4 S3 S2 S1 COM1 COM2

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from Back Up and ACC terminal.
- Voltage is dc with respect to ground under no-signal (detuned) conditions.
  no mark: FM
  (   ): AM
  ‹   ›: PLAY
  ✱ : Impossible measurement point
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- 7040 : XR-7040
  7041 : XR-7041
  7042 : XR-7042
  U110 : XR-U110

CORRECTION

☛: indicates corrected portion.

Page 1

Tuner section

FM

Tuning range
XR-U110:
87.5—107.9MHz
XR-7040: AEP model/7041/7042: ☛
87.5—108.0MHz
XR-7040: E model: ☛
FM tuning interval:
50kHz/200kHz switchable
87.5—108.0MHz
(at 50kHz step)
87.5—107.9MHz
(at 200kHz step)

Page 2

AM (MW/LW)

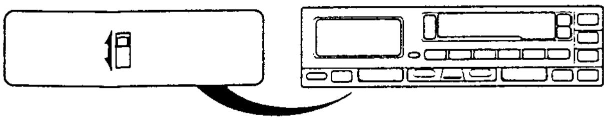
Tuning range
XR-U110:
530—1,710kHz
XR-7040: AEP model/7042: ☛
531—1,602kHz
XR-7040: E model: ☛
AM tuning interval:
9kHz/10kHz switchable
531—1,710kHz
(at 9kHz step)
530—1,620kHz
(at 10kHz step)
XR-7041:
MW: 531—1,602kHz
LW: 153—281kHz

Page 10

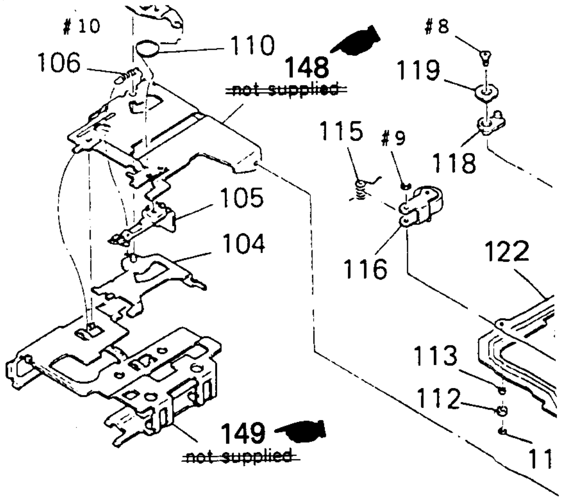
XR-7040: E model only

Frequency Select Switch

The AM(FM) tuning interval is factory set to the 9K (50K) position. If the frequency allocation system of your country is based on 10 kHz (200 kHz) interval, set the switch on the bottom of the unit to the 10K (200K) position before making connections.



Page 40



Ref. No.	Part No.	Description	Remark
148	3-375-383-01	HANGER (X), CASSETTE ☛	
149	3-375-384-01	HOLDER (X), CASSETTE ☛	

Page 41

Ref. No.	Part No.	Description	Remark
S903	1-554-790-21	SWITCH, POWER (MUTE/TAPE) ☛	
S904	1-692-065-11	SWITCH, LEAF (MUTE/POWER) ☛	

Page 49

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *************	
S903	1-554-790-21	SWITCH, POWER (MUTE/TAPE) ☛	
S904	1-692-065-11	SWITCH, LEAF (MUTE/POWER) ☛	

Page 50

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS ********************************	
*	3-378-800-01	CUSHION (UPPER)	
*	3-378-801-01	CUSHION (LOWER)	
*	3-387-920-01	INDIVIDUAL CARTON (U110) ☛	
*	3-388-368-01	INDIVIDUAL CARTON (7040) ☛	
*	3-387-922-01	INDIVIDUAL CARTON (7041)	
*	3-387-924-01	INDIVIDUAL CARTON (7042)	

Sony Corporation
Mobile Electronics Group

English
9310477-1
Printed in Japan
© 1993. 9
Published by Audio Sector Quality Assurance Dept.

XR-7040/7041/7042/U110

SONY®
SERVICE MANUAL

US Model
Canadian Model
XR-U110
AEP Model
XR-7040/7041
E Model
XR-7040
German Model
XR-7042

SUPPLEMENT-2

File this supplement with the service manual.

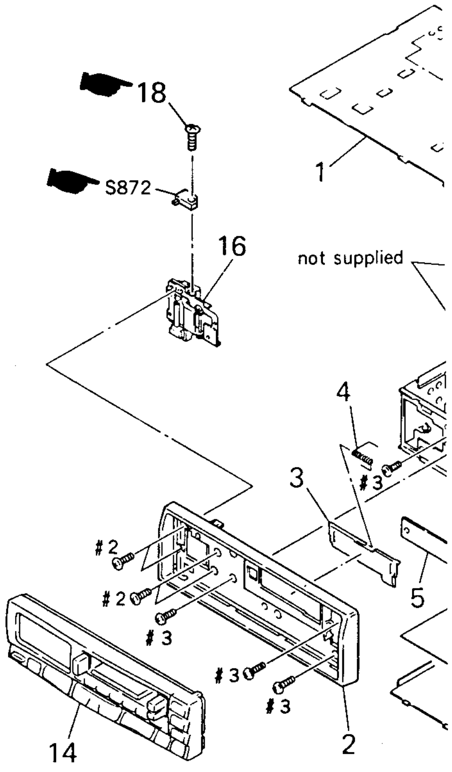
Subject : **Change notice for the circuit diagram and PC boards**

1. CHANGE OF SWITCH S872

The switch S872 (NOSE DET) mounted on RESET board was deleted on the way of production. It has been changed that this switch is mounted to the Lock Assy.

Page 38

☛ **: Additional Parts**

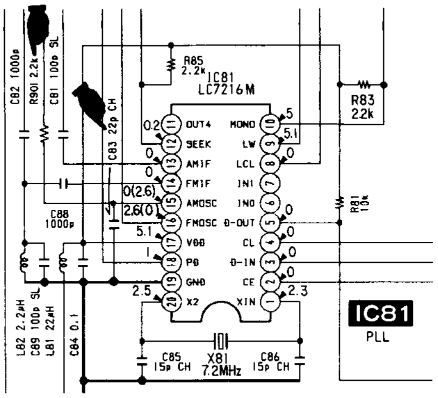

18
S872
16
1
not supplied
4
3
#3
#2
#2
#3
#3
#3
5
14
2

Ref. No.	Part No.	Description	Remark
18	7-627-853-57	PRECISION SCREW +P 2×5 TYPE3	
S872	1-570-771-11	SWITCH (NOSE DET)	

2. CHANGE OF SCHEMATIC DIAGRAM

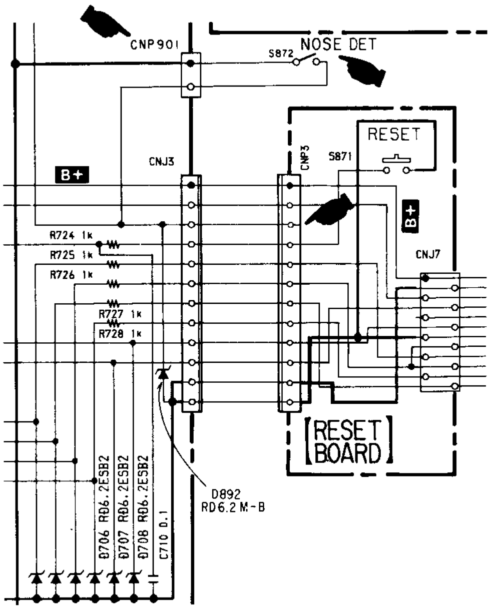
Page 18 **(Supplement-1)**

☛ **: Changed Portion**


C82 1000p
R901 2.2k
C81 100p SL
C83 22p CH
R85 2.2k
IC81
LC7216M
OUT4
SEEK
AMIF
FMIF
AMOSC
FMOSC
VDD
PD
GND
X2
MONO
LW
LCL
INI
INO
Φ-OUT
CL
Φ-IN
CE
XIN
R83 22k
R81 10k
C88 1000p
L82 2.2μH
C89 100p SL
L81 22μH
C84 0.1
C85 15p CH
X81 7.2MHz
C86 15p CH
IC81
PLL

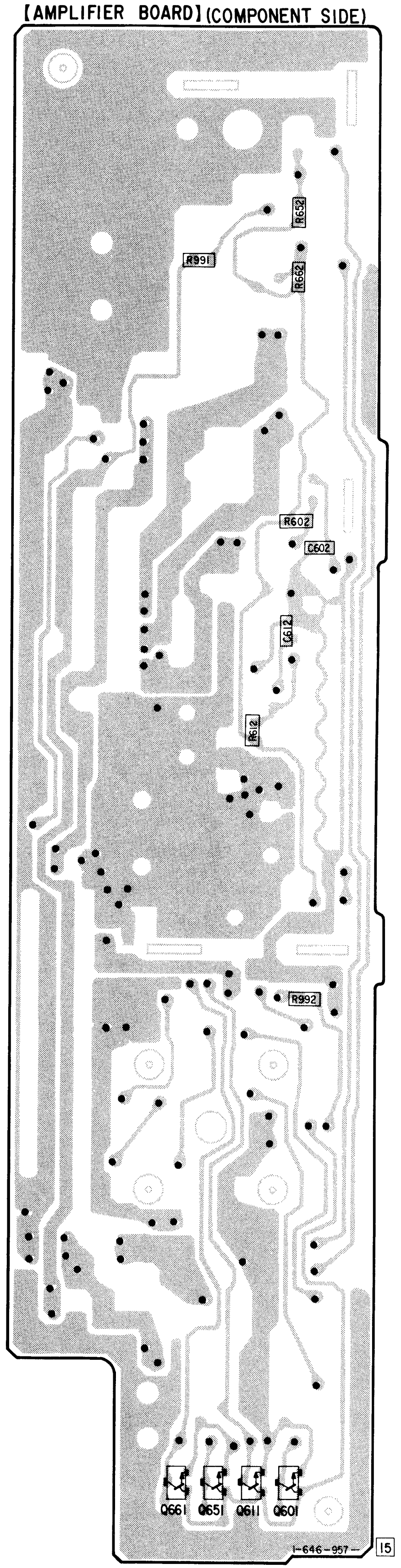
Page 19 **(Supplement-1)**

☛ **: Changed Portion**

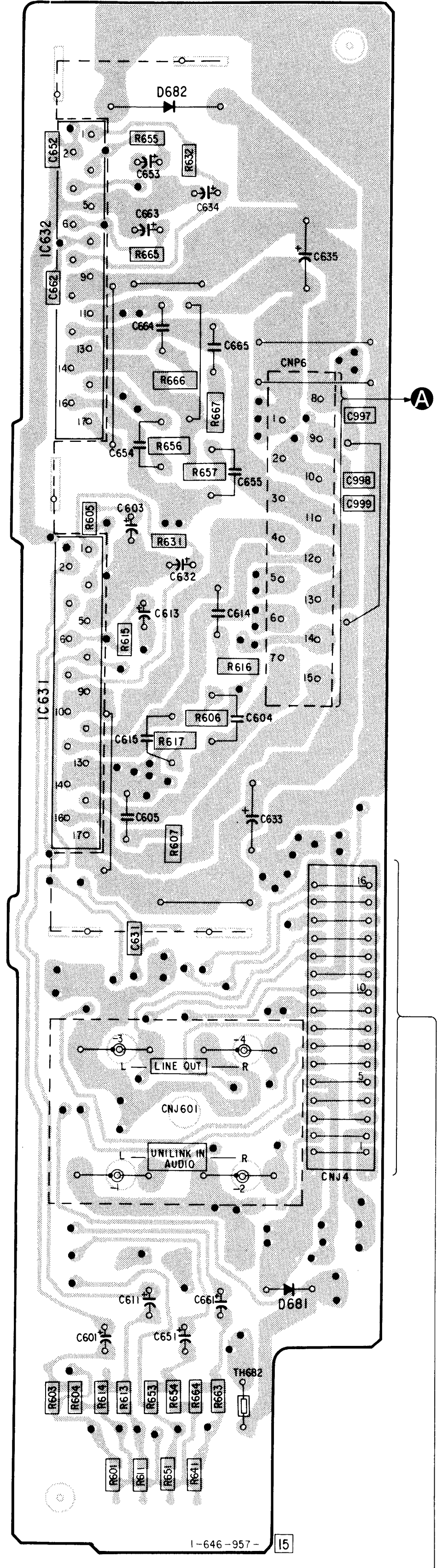

CNP901
S872
NOSE DET
RESET
S871
CNP3
B+
CNJ3
B+
R724 1k
R725 1k
R726 1k
R727 1k
R728 1k
CNJ7
RESET BOARD
D892
RD6.2M-B
D706 RD6.2ESB2
D707 RD6.2ESB2
D708 RD6.2ESB2
C710 0.1

3. CHANGE OF PRINTED WRING BOARDS

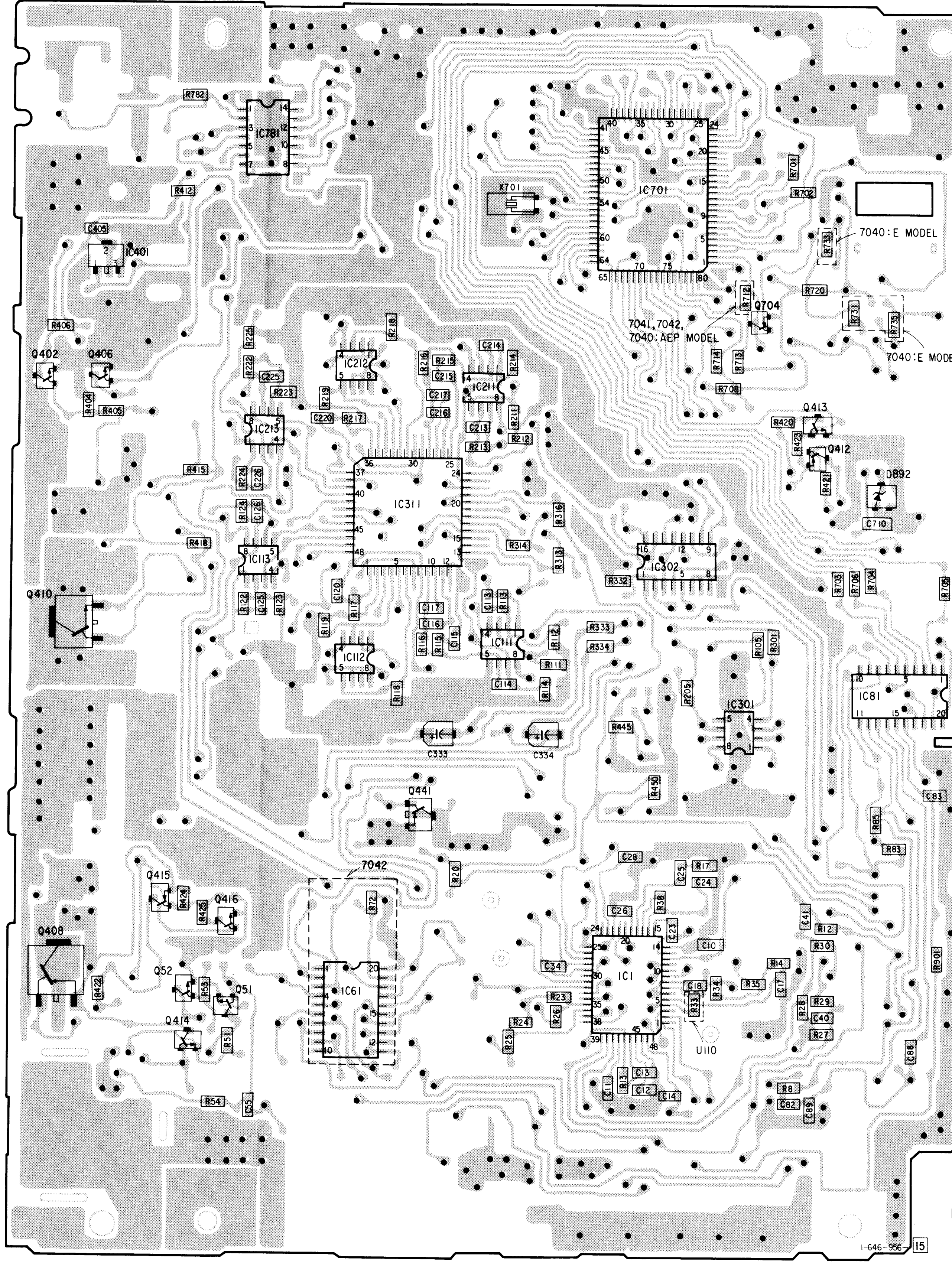
[AMPLIFIER BOARD] (COMPONENT SIDE)

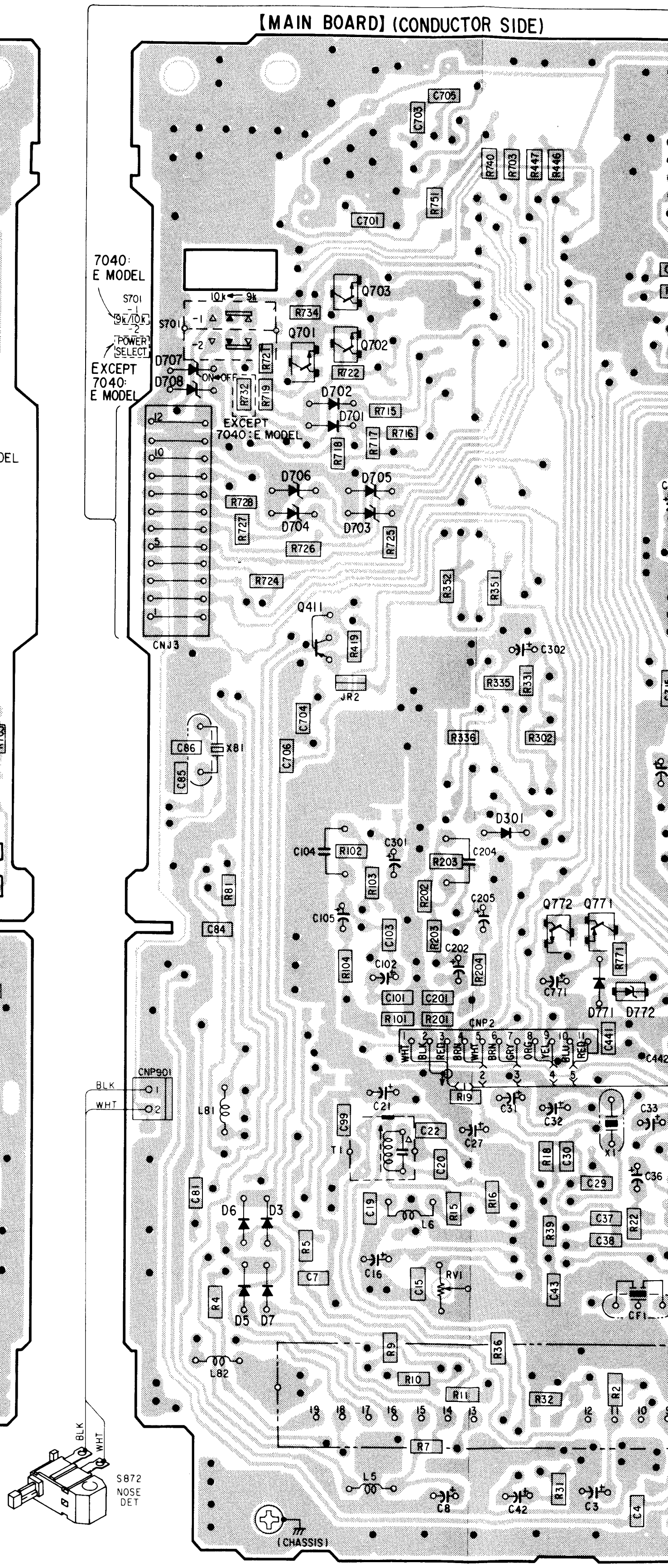

R991
R652
R662
R602
C602
C612
R612
R992
Q661
Q651
Q611
Q601
1-646-957-
15
04

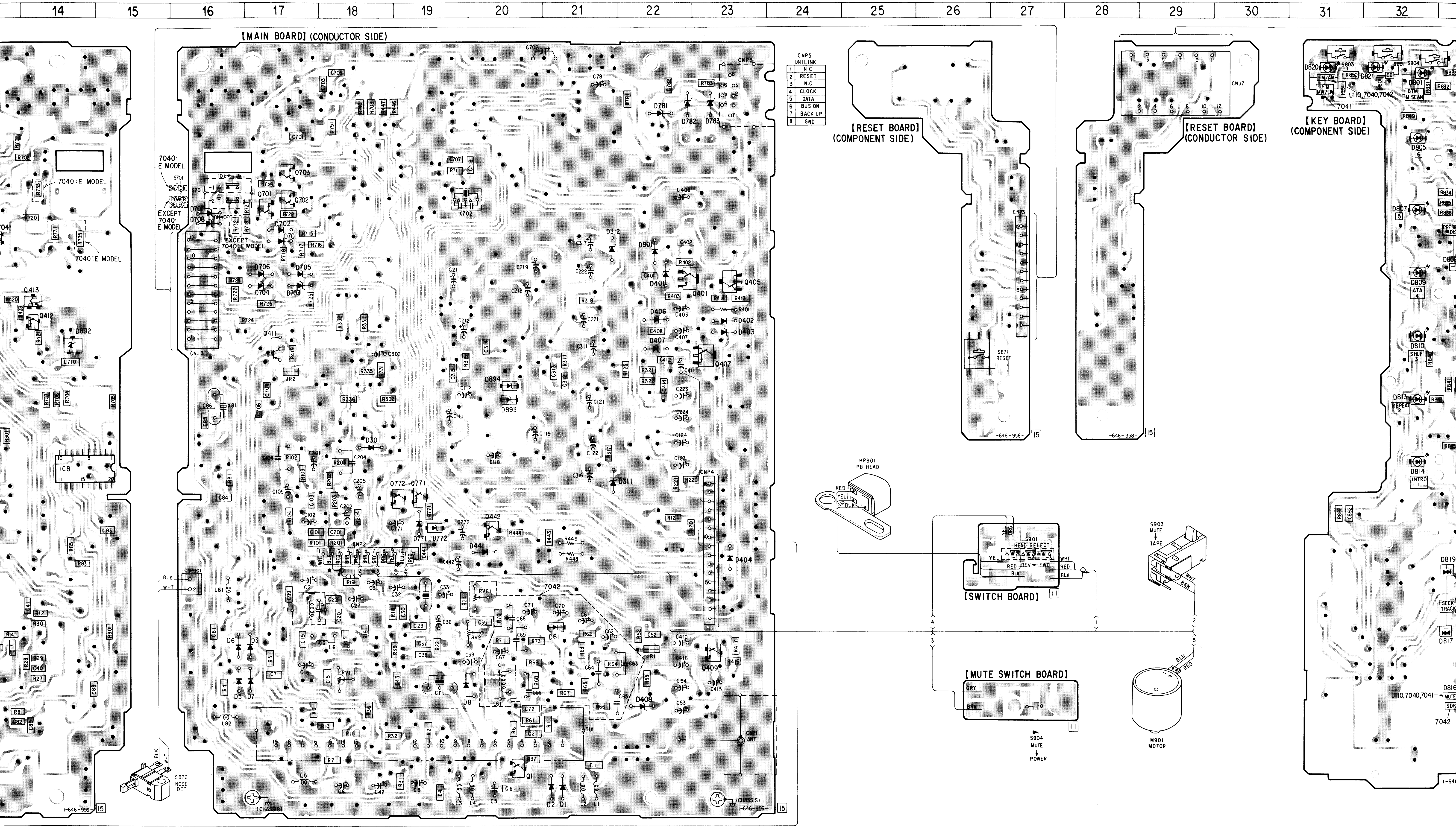
[AMPLIFIER BOARD] (CONDUCTOR SIDE)


D682
R655
C653
R632
C634
C663
R665
C635
IC632
C652
C662
C664
C665
R666
CNP6
R667
C997
A
C654
R656
R657
C655
C998
C999
R605
C603
R631
C632
C613
R615
C614
R616
IC631
R606
C604
C615
R617
C605
R607
C633
C631
LINE OUT
CNJ601
UNILINK IN AUDIO
CNJ4
C611
C661
D681
C601
C651
TH682
R603
R604
R614
R613
R653
R654
R664
R663
R601
R611
R651
R641
1-646-957-
15

[MAIN BOARD] (COMPONENT SIDE)

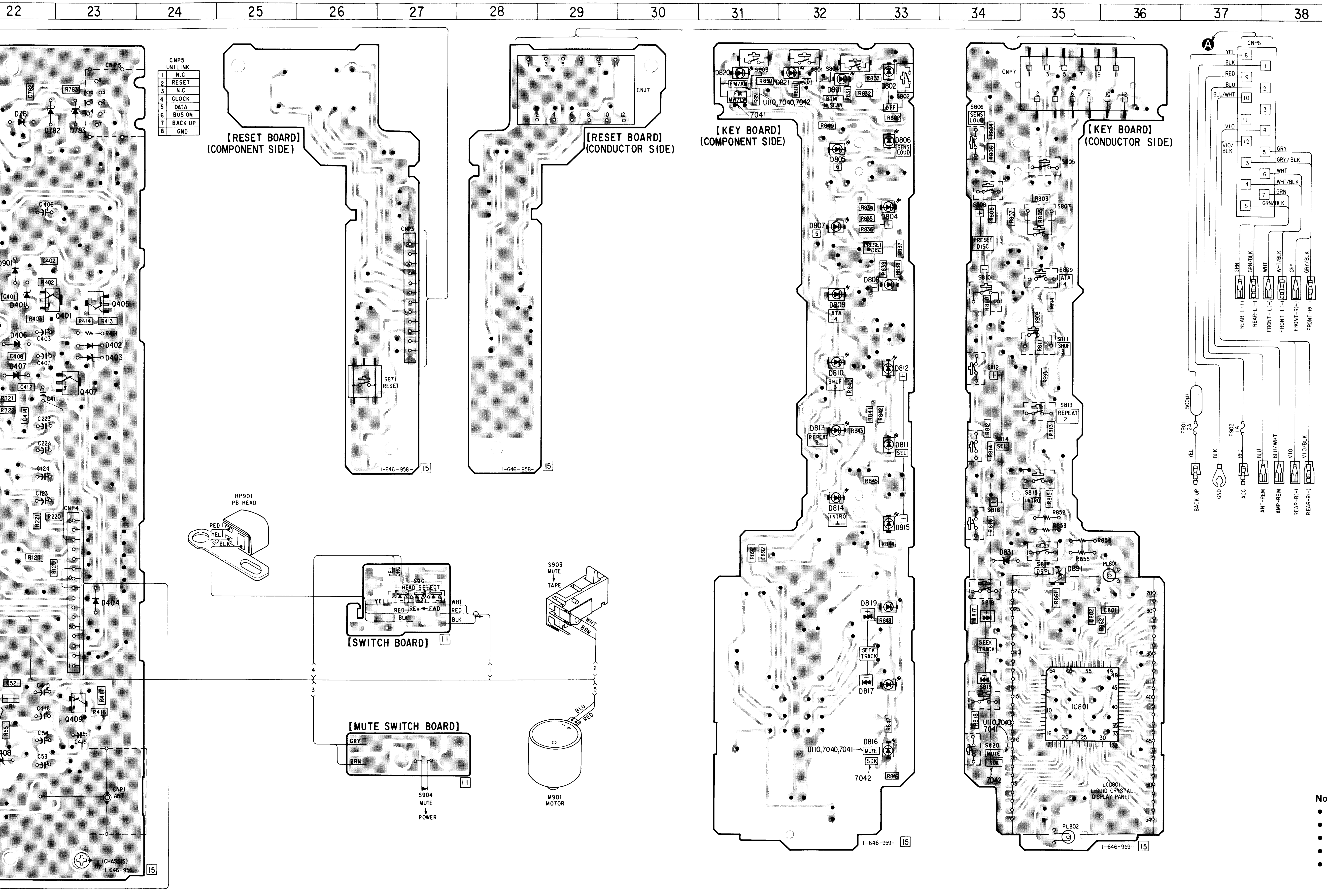

R782
IC781
R412
X701
IC701
R701
R702
C405
IC401
7040: E MODEL
R720
7041, 7042, 7040: AEP MODEL
Q704
R406
Q402
Q406
R404
R405
IC212
IC211
IC213
IC311
IC302
IC113
IC112
IC111
IC81
IC301
R420
Q413
Q412
D892
C710
Q410
C333
C334
Q441
7042
R72
IC61
Q415
Q416
Q408
Q52
Q51
Q414
R54
IC1
U110
C83
R83
R85
R901
C88
1-646-956
15


[MAIN BOARD] (CONDUCTOR SIDE)
7040: E MODEL
S701
POWER SELECT
EXCEPT 7040: E MODEL
D707
D706
CNJ3
EXCEPT 7040: E MODEL
C705
C703
C701
R740
R703
R447
R446
R751
Q703
Q702
Q701
R734
R722
R721
D702
D701
R715
R716
D706
D705
D704
D703
R728
R727
R726
R724
Q411
R419
JR2
C302
R352
R351
R335
R331
R336
R302
X81
C86
C85
D301
C104
R102
C301
R203
C204
C105
C205
Q772
Q771
C84
R81
D771
D772
C102
C101
C201
R101
R201
CNP2
C442
CNP901
BLK
WHT
L81
C21
R19
C31
C32
C33
C99
C22
C27
T1
C81
D6
D3
C19
L6
R18
C30
C29
C36
R15
R16
C37
C38
R5
C7
C16
C15
RV1
R39
C43
CF1
R4
D5
D7
L82
R9
R10
R11
R36
R32
R2
R7
L5
C8
C42
R31
C3
C4
S872
NOSE DET
(CHASSIS)


14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
[MAIN BOARD] (CONDUCTOR SIDE)
[RESET BOARD] (COMPONENT SIDE)
[RESET BOARD] (CONDUCTOR SIDE)
[KEY BOARD] (COMPONENT SIDE)
[SWITCH BOARD]
[MUTE SWITCH BOARD]
7040: E MODEL
EXCEPT 7040: E MODEL
S701 POWER SELECT
CNJ3
CNJ7
CNP3
CNP4
CNP901
CNP1 ANT
(CHASSIS)
1-646-956-
1-646-958-
15
11
S871 RESET
HP901 PB HEAD
S901 HEAD SELECT
REV
FWD
S903 MUTE TAPE
S904 MUTE POWER
M901 MOTOR
S872 NOSE DET
RED
YEL
BLK
WHT
GRY
BRN
BLU
U110,7040,7042
U110,7040,7041
7041
7042
FM/AM
FM MW/LW
CD
BTM M.SCAN
REPEAT 2
INTRO 1
SHUF 3
ATA 4
SEEK TRACK
MUTE

CNP5
UNILINK

1	N.C
2	RESET
3	N.C
4	CLOCK
5	DATA
6	BUS ON
7	BACK UP
8	GND


22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
CNP5
UNILINK
1 N.C
2 RESET
3 N.C
4 CLOCK
5 DATA
6 BUS ON
7 BACK UP
8 GND
【RESET BOARD】
(COMPONENT SIDE)
【RESET BOARD】
(CONDUCTOR SIDE)
CNJ7
CNP3
S871 RESET
1-646-958-
15
【KEY BOARD】
(COMPONENT SIDE)
【KEY BOARD】
(CONDUCTOR SIDE)
CNP7
CNP6
U110,7040,7042
7041
7042
U110,7040,7041
1-646-959-
15
IC801
LCD801
LIQUID CRYSTAL
DISPLAY PANEL
PL801
PL802
HP901
PB HEAD
【SWITCH BOARD】
S901
HEAD SELECT
REV ← FWD
11
S903
MUTE
TAPE
【MUTE SWITCH BOARD】
S904
MUTE
POWER
11
M901
MOTOR
CNP1
ANT
CNP4
(CHASSIS)
1-646-956-
15
Ⓐ
YEL
BLK
RED
BLU
BLU/WHT
VIO
VIO/BLK
GRY
GRY/BLK
WHT
WHT/BLK
GRN
GRN/BLK
REAR-L(+)
REAR-L(-)
FRONT-L(+)
FRONT-L(-)
FRONT-R(+)
FRONT-R(-)
F901
12A
500μH
F902
1A
BACK UP
GND
ACC
ANT-REM
AMP-REM
REAR-R(+)
REAR-R(-)

● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D1	K-21	D892	E-14
D2	K-21	D893	F-20
D3	I-17	D894	E-20
D5	J-16	D901	D-22
D6	I-16		
D7	J-17	IC1	I-12
D8	J-19	(IC61)	I-10
D61	I-21	IC81	G-14
D301	F-18	IC111	F-11
D311	G-21	IC112	F-10
D312	C-21	IC113	E-9
D401	D-22	IC211	D-11
D402	E-23	IC212	D-10
D403	E-23	IC213	D-9
D404	H-23	IC301	G-13
D406	D-22	IC302	E-12
D407	E-22	IC311	E-10
D408	J-22	IC401	C-8
D441	H-19	IC631	F-4
D681	I-6	IC632	B-4
D682	A-5	IC701	B-12
D701	C-17	IC781	B-9
D702	C-17	IC801	I-35
D703	D-17		
D704	D-17	Q1	K-20
D705	D-17	Q51	I-9
D706	D-17	Q52	I-8
D707	C-16	Q401	D-22
D708	C-16	Q402	D-7
D771	G-19	Q405	D-23
D772	G-19	Q406	D-8
D781	B-22	Q407	E-23
D782	B-22	Q408	I-7
D783	B-23	Q409	I-23
D801	A-32	Q410	F-7
D802	A-33	Q411	E-17
D804	C-33	Q412	D-14
D805	B-32	Q413	D-14
D806	B-33	Q414	I-8
D807	C-32	Q415	H-8
D808	D-33	Q416	H-9
D809	D-32	Q441	G-10
D810	E-32	Q442	G-20
D811	F-33	Q601	K-3
D812	E-33	Q611	K-2
D813	F-32	Q651	K-2
D814	G-32	Q661	K-2
D815	G-33	Q701	C-17
D816	I-33	Q702	C-17
D817	I-33	Q703	C-17
D819	H-33	Q704	C-13
D820	A-31	Q771	G-19
D821	A-32	Q772	G-18
D831	G-34		
D891	G-35	THP682	J-5

( ): XR-7042 only

Note :

- ○— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ● : Through hole.
- ⬚← indicates side identified with part number.
- ▨ : Pattern on the side which is seen.

(The other layer's patterns are not indicated.)